12,000 Copies Each Week

The OIL WEEKLY

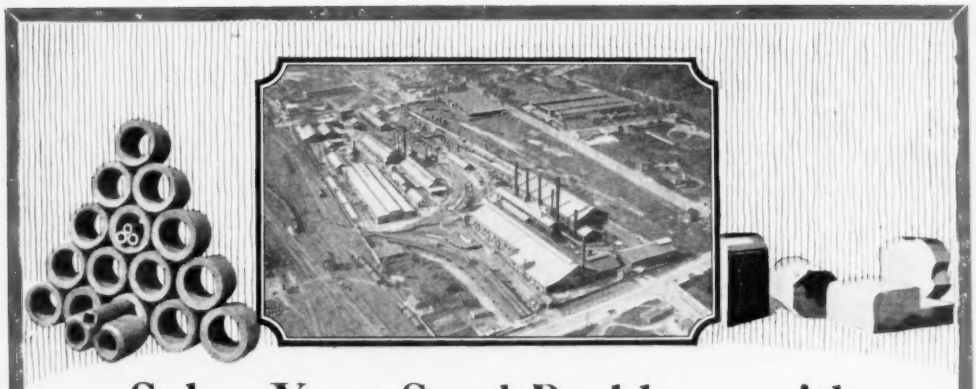
A Journal for Oil Producers and Field Men

News Index 7
Advertisers' Index 5

Published Weekly At Houston, Texas

HOUSTON PITTSBURGH TULSA
LOS ANGELES WICHITA FALLS CHICAGO

Vol. 27. No. 4 OCTOBER 21, 1922 10 Cents Per Copy



Solve Your Steel Problems with Harrisburg Specialty Steels

No matter what your steel requirements—a little harder, perhaps, a little tougher, greater strength, greater density, more susceptible to heat treatment—you will find that Harrisburg special alloy steels solve your stiffest demands.

Harrisburg conforms to specifications with minute accuracy—and is always uniform in quality. In every sense of the word, Harrisburg specialty steels live up to the "Quality" reputation that Harrisburg Oil Field equipment has long since established.

You may obtain Harrisburg specialty steels to meet your exact requirements in shapes (squares, flats, rounds and specials), hot rolled strips, slabs, billets, bars, skelp and hollow forgings. Our engineers will co-operate with you gladly; their services are at your disposal for the asking.

HARRISBURG PIPE & PIPE BENDING CO.
Harrisburg, Pa.

HARRISBURG

Specialty Oil Field Steels

QUALITY

THE BODY OF EVERY WILSON PERFECTION UNDERREAMER is made of the finest special forged steel, made to our own specification. Each forging is most carefully inspected and a check analysis taken before leaving the mill. This INSURES UNIFORMITY of materials. All bodies are inspected through the fabrication in our factory to further insure the quality of steel. After machine work is completed, they are carefully HEAT TREATED in a most modern heat treating plant, and every body minutely tested with scientific instruments before it leaves our plant. When you get it—IT'S RIGHT!

"IT'S A WILSON"

It Can't Go Wrong

Manufactured Exclusively By

Wilson & Willard Mfg. Co.

Los Angeles, Calif.

Tulsa Office
633 Mayo Bldg.

Houston Office
204 West Bldg.

IDEAL

The most Efficient Underreamer for either hard or soft drilling

The Ideal Underreamer is a perfect product the result of co-operative engineering, intensive application and wide experience

The IDEAL UNDERREAMER

Made from an electric furnace steel of special analysis and heat treatment.

The cutters are heavy, well proportioned, and have extra long shanks which give extra large bearing surfaces, insuring maximum life.

Equipped with key lock—a positive means of locking cutters—making a rigid assembly of cutters, key and mandrel and holding the cutters in positive alignment.

Union Tool Company

TORRANCE, California. BREA, California. TAFT, California. SANTA FE SPRINGS, California. LONG BEACH, California WEST CHICAGO Illinois CARNEGIE, Pennsylvania.

DISTRIBUTORS:

Mid-Continent and Eastern Oil Fields:

The National Supply Companies

California:

Associated Supply Company
The California National Supply Co.
Oil Well Equipment Co.
Thos. H. Pike Co.
Chas. M. Woods Co.

Atlantic Export:

The National Supply Corp., New York.

Foreign:

The National Supply Corp., London.

"Were I Starting One Hundred New Wells Today I Would Certainly Use All READING WROUGHT IRON PIPE"

This is the opinion of a man who has used the same lengths of "Reading" Casing in over a hundred wells—and will use them in new wells this summer. And what has been said of Reading Wrought Iron Casing can be said of Reading Wrought Iron Rotary Drill Pipe—its enduring qualities keep it in service year after year at the lowest cost per well.

Some men never finish paying for pipe bought on a basis of cost per length—each drilling delay from cutting and threading difficulties, every replacement caused by rust, crystallization or inability to stand the strain of rotary motion must be added to the original purchase price. Others look for the name "Reading"—and pay **only the amount on the invoice.**

Your neighbors in the oil field have already tested Reading Wrought Iron Pipe under every stress of service. They can tell you how much time and money it has saved for them. But until you try "Reading" yourself in at least one well you will not fully appreciate the wisdom of paying a trifle more for a pipe with a life two or three times that of steel.

READING IRON COMPANY

READING, PENNA.

Largest Producers of Wrought Iron Pipe in the World

Oil Well Supply Co., Distributors
Stores in all important Oil Fields

READING

GUARANTEED GENUINE

WROUGHT IRON PIPE

INDEX TO ADVERTISERS

A

Ajax Iron Works 68
American Well and Prospecting Co.... *
Atlas Supply Co. .....Inside back cover
Axelson Machine Co. 8
American Tank Co. ..... *

B

Barnickel, W. S. & Co. 83
Beaumont Well Works Co. 63
Bessemer Gas Engine Co. 73
Bridgeport Machine Co. 74, 72, 69, 68, 78, 80, 82, 84, 65, 64, 63, 62
Black, Sivalls & Bryson 87
Brownell Co. 90
Buckeye Traction Ditcher Co. ..... *
Boykin Machinery & Supply Co. 51

C

Caudill, S. J. 62
Chapman Valve Mfg. Co. 70
Chicago Bridge & Iron Works ..... *
Clark Bros. Drilling Engine 85
Clark Machine Co. 95
Columbian Steel Tank Co. ..... *
Continental Supply Co. ..... *
Cosden & Co. ..... *
Coste, E. & Co. 62

D

Darnell & Eaton 65
Darling Valve & Mfg. Co. 89
De Laval Separator Co. ..... *
De La Vergne Machine Co. ..... *
Deussen, Alexander 62
Dunn Manufacturing Co. ..... *
Dyer, C. A. ..... *

E

Empire Refineries ..... *
Enameled Metals Co. ..... *
Exchange Bank of Tulsa ..... *

F

First National Bank of Tulsa..... *
Fort Worth Laboratories 65
Foos Gas Engine Co. ..... *
Foxboro Co., Inc. 81
Franklin Valveless Engine Co. ..... *
Freeborn Engineering Corporation 65
Frick-Reid Supply Co. 55

G

Gardner Governor Co. ..... *
Gaso Pump & Burner Mfg. Co. 47
Glen, James 64
Goodrich, B. F. Rubber Co. 32
Goulds Manufacturing Co. ..... *
Guiberson Corporation 6

G—Continued

Gulf Coast Machine & Supply Co. 57
Gulf Refining Co. 67

H

Hager, Dorsey 62
Hardway & Cathey 65
Harrisburg Pipe & Pipe Bending Co... ... . Front cover
Heitmann, F. W. & Co. 63
Henley, A. S. 62
Heydrick Mapping Co. 64
Hill, Robert T. 62
Hirsch & Hannay 65
Hope Engineering Co. ..... *
Hopkins, Edwin B. 62
Hough Mfg. Co., Charles N. 85
Hubbard & Son ..... *
Hughes Tool Co. .....Back cover
Humble Oil & Refining Co. ..... *

I

Ingersoll-Rand Co. ..... *
International Derrick & Equipment Co. 59
Interstate Pipe Co. ..... *

K

Kreiter Machine Co. 63
Kansas City Structural Steel Co. 95
Kansas City Hay Press & Tractor Co... *
Kaw Boiler Works Co. 69
Kelly & Jones Co. 71
Kosmos Petroleum Co. ..... *

L

Layne & Bowler Co. 75
Lassen Hotel ..... *
Larco Wrench & Mfg. Corp. 94
Lucey Manufacturing Corp. ..... *
Lufkin Foundry & Machine Co. ..... *
Ludlow Valve Mfg. Co. 74

M

Maloney Tank Mfg. Co. 42
Matson, George C. 62
Midland Refining Co. ..... *
Moore, Lee C. & Co. ..... *
Mosher Steel & Machinery Co. ..... *
McEvoy, J. H. & Co. ..... *
Myrick Machine Co. ..... *

N

National Supply Companies 60
National Transit Pump & Mch. Co. ..84
Navarro, Jose ..... *
Norris Bros. ..... *

O

Oil Well Supply Co. ..... *
Oklahoma Tool & Supply Co. ..... *

P

Parkersburg Rig & Reel Co. 79
Peden Iron & Steel Co. 46
Pelican Well Tool & Supply Co. 45
Pennsylvania Tank Car Co. ..... *
Petroleum Rectifying Co. ..... *
Petroleum Safety Appliance Co. 93
Petroleum Supply Co. 5
Petroleum Iron Works Co. ..... *
Phoenix Iron Works ..... *
Phillips, F. S. 64
Pittsburgh-Des Moines Steel Co. ..... *
Powell Co., Wm. ..... *
Pratt & Cady 81

R

Reading Iron Co. 4
Reading Valve & Fittings Co. ..... *
Reading Steel Casting Co. ..... *
Robertson-MacDonald Lumber Co. .... *
Rock Map Co. 64

S

Shreveport Chemical Company ..... *
Sinclair Refining Company 58
Southern Brass Mfg. Co. 78
Southern Engine & Pump Co..... *
Southwest General Electric Co. ..... *
Standard Oil Co., (N. J.) 53
Standard Seamless Tube Co. 44
Stone, Jesse R. 65
Sullivan Machinery Co. 82
Sunshine State Oil & Ref. Co. 90
Superior Tube Co. ..... *
Sur, F. J. S. 62

T

The Texas Co. ..... *
Texas Supply Co. 63
Texas Petroleum Bureau 64
Titusville Iron Works ..... *
Trumble Gas Trap Co. ..... *
Tulsa Boiler & Sheet Iron Works..80, 40

U

Union Tool Co. 3
Union Petroleum Co. ..... *
United Iron Works, Inc. 93

V

Vilter Manufacturing Co. 48
Vinson, Elkins & Wood 65

W

Weliman, E. T. 66
Western Machinery Co. 77
Western Supply Co. ..... *
Westinghouse Electric & Mfg. Co. .... *
White Oil Corp. 83
Wiggins Supply Co. 63
Wilcox Oil & Gas Co. 63
Williams, F. N. 65
Williams, J. H. & Co. 72
Williams Tool Corporation 86
Williamsport Wire Rope Dist. Co. .... *
W. K. M. Co. ..... *
Wilson & Willard Mfg. Co. ....Inside front cover
Williamsport Wire Rope Co. ..... *
Wyatt Metal & Boiler Works ..... *

Y

Youngstown Boiler & Tank Co. ..... *

*Printed in one or more issues of each month.

OIL FIELD SUPPLIES

PUMPS—Fittings, Valves, Packing, Beltings, Wire Lines, Bull Ropes, Drilling Cables, Boilers and Complete Pumping Equipment

REFINERY TOOLS AND SUPPLIES

Distributors of South Chester Wrought Iron and Steel Casing, Tubing, Rotary Drill and Line Pipe

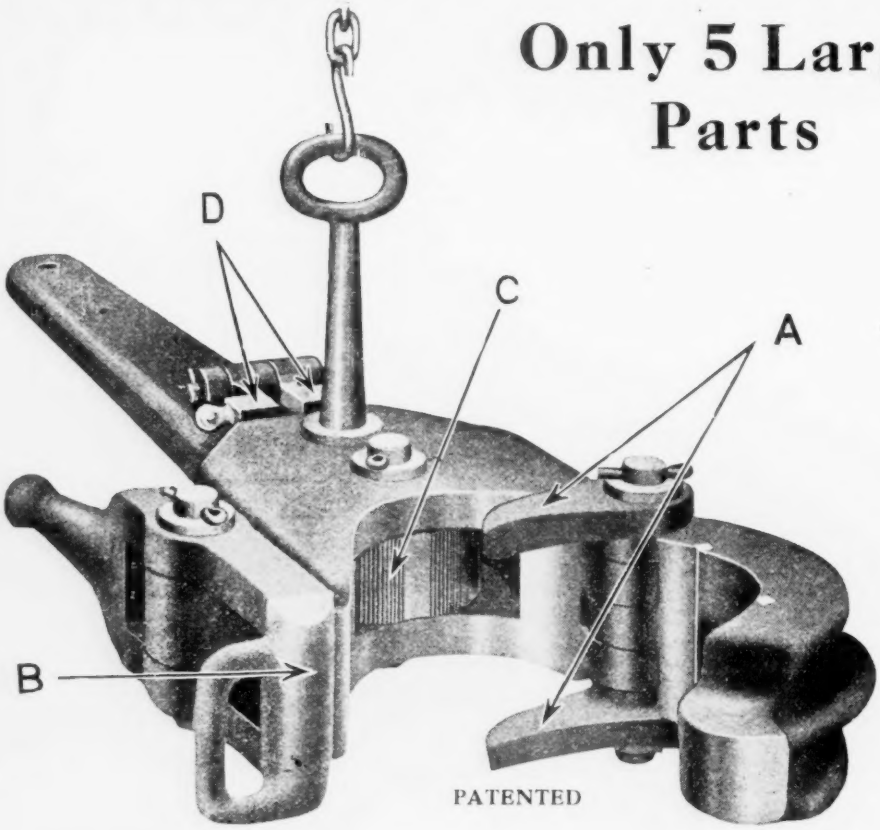
PETROLEUM SUPPLY COMPANY, New York, N. Y.

Stores:
HOUSTON, TEXAS
MEXIA, TEXAS
EL DORADO, ARKANSAS

Representatives:
SHREVEPORT, LA.
HAYNESVILLE, LA.
ORANGE, TEXAS

RUGGED SIMPLICITY!

Only 5 Large Parts



Guiberson Automatic Tool-Joint Tong

Ears A, striking joint, close and latch tong.

Handle rocks cam die C, whose teeth insure a non-slip grip.

Pawls D, instantly adjust for screwing to right or left.

Tests by leading producers have proved this tong unequalled for speed and strength.

Order from your supply house

THE GUIBERSON CORPORATION

Box 1106, Dallas, Texas

California Branch Office:
1737 East 7th St., Los Angeles

GETTER BE SAFE THAN SORRY GUIBERSON

314 New Daniel Bldg., Tulsa
825 Mason Bldg., Houston
506 Trust Bldg., Newark, Ohio

THE OIL WEEKLY

MEMBER AUDIT BUREAU OF CIRCULATIONS

Entered as second class mail matter at the Postoffice, Houston, Texas

Published weekly by
Gulf Publishing Company

Copyright 1922 by the Gulf Publishing Company

HOUSTON, TEXAS, SATURDAY, OCTOBER 21, 1922

HOME OFFICE: Sixth Floor Goggan Bldg., Houston, Texas
R. L. DUDLEY.....Manager and Editor
W. E. GREEN.....Associate Editor
H. W. DRAPER.....Superintendent Plant
NORTH TEXAS OFFICE: 201 City National Bank Building, Wichita Falls, Texas.....H. H. KING, Manager
MID-CONTINENT OFFICE: 225 Atco Building., Pho. Osage 1844, Tulsa, Okla.....J. F. CARTER, JR., Manager
EASTERN OFFICE: 1507 First National Bank Bldg., Phone Court 286, Pittsburgh, Pa.....R. E. CONNELL, Manager
WEST COAST OFFICE: 426 Douglas Building, Phone 12551, Los Angeles, Calif. .....B. V. ELLZEY, Manager
CHICAGO OFFICE: 453 First National Bank Building, Chicago, Illinois.....O. R. WALLER, Mgr.

SUBSCRIPTION RATES
One Year.....$1.00 Single Copies.....10c
Foreign Subscription.....$2.00
Advertising rates furnished on application
Advertising accounts to be made payable to Gulf Publishing Co.

IN THIS WEEK'S ISSUE

U. S. PRODUCTION UP AGAIN
During the past week, there was an increase of more than 8,000 barrels in the daily output of crude in the United States. Page 17.

MAY ABOUT FACE
It now appears that the shut down committee in Oklahoma will ask the secretary of the interior to rescind his order against further drilling in the Osage. Page 10.

IT'S AN OLD ONE THIS TIME
An aged Frenchman thinks he has discovered a new system of locating oil and mineral deposits. Page 10.

CALIFORNIA'S OVER-PRODUCTION
There is an excess production of 80,000 barrels daily in California in addition to 61,000 barrels that is shut in. Page 11.

THE OIL MEN GATHER
Oklahoma-Kansas members of the Mid-Continent Oil & Gas Association have a great time at Tulsa. Page 12.

ANOTHER JUICY MELON
Now the Standard of New Jersey remembers its stockholders in a way that stockholders like to be remembered. Page 14.

JUST LOOK AT HER GUSH
That Teapot Dome well sure enough went over the top, as pictures do not lie. See Page 15.

OFF AGAIN, ON AGAIN
The crude market is weaker in Oklahoma as refiners curtail runs, while operators wonder what a day will bring forth. Page 17. And it's stronger in North Texas. Page 18.

OTHER FEATURES

	Pages
Arkansas	46, 48
Cenrtal West Texas	25 to 27
Coastal Bollweevil	94
Crude Oil Markets	17 to 19
Eastern States	50 to 54
Editorial	9
Gulf Coast Field	37 to 40
Kansas	24
Louisiana Fields	42, 43
Mexia	31, 32
Mexico	58, 59
Mountain States	20
New Equipment, Etc.	91
North Texas	28, 29
Oklahoma	22, 23
Permits to Drill	33, 34
Personals	92, 93
"Squeaks"	96
West Coast	56, 57
Wildcats	61 to 70

KEY TO ABBREVIATIONS
Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

TWO NEW PIPE LINES
Salt Creek has two new pipe lines to help care for the production that is gaining. Page 20.

MEXICAN SHIPMENTS DECLINE
Exports of oil from Mexico in September show a drop of more than 2,800,000 barrels. Page 59.

BLUE RIDGE COMES BACK
A new well at Blue Ridge in Gulf Coast seems to indicate that the pool is staging a comeback. Page 37.

DEEPEST EXCEPT ON WEST COAST
A new well at Goose Creek in Texas Gulf Coast is the deepest producer in the United States except for some wells in California. Page 39.

SMACKOVER POOL EXTENDED
Regardless of b. s. and water troubles, Smackover field in Arkansas is extended and coming along fine, thank you. Page 46.

SLOWING DOWN IN KENTUCKY
Field work is easing off in the fields of Kentucky. Page 52.

RICH FIELD ON AN ISLAND
Do you know the location of a rich oil field on a small island 40 square miles in area? See Page 72.

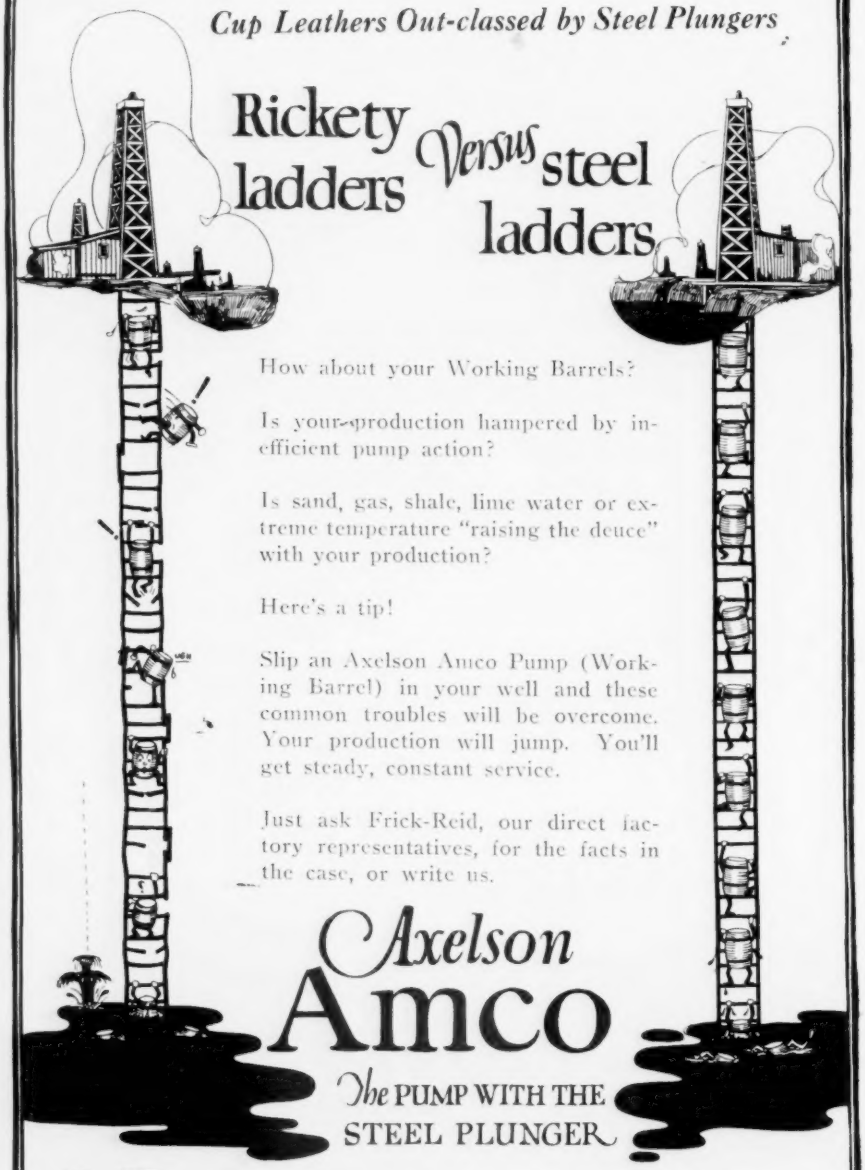
HE USED HIS HEAD
A Texas Company man used his head other than for hanging his hat, and is pumping three wells with one engine. Page 76.

CASING STANDARDIZATION
The standardization of casing is drawing nearer. Page 78.

RECORD GASOLINE CONSUMPTION
August saw the record gasoline consumption but production was off. Page 87.

Cup Leathers Out-classed by Steel Plungers

Rickety ladders *Versus* steel ladders



How about your Working Barrels?

Is your production hampered by inefficient pump action?

Is sand, gas, shale, lime water or extreme temperature "raising the deuce" with your production?

Here's a tip!

Slip an Axelson Amco Pump (Working Barrel) in your well and these common troubles will be overcome. Your production will jump. You'll get steady, constant service.

Just ask Frick-Reid, our direct factory representatives, for the facts in the case, or write us.

Axelson Amco

The PUMP WITH THE STEEL PLUNGER

AXELSON MACHINE CO., Los Angeles

Tulsa Office: 520 Kennedy Bldg.

©CI B 549928
OCT 23 '22

THE OIL WEEKLY

An International Oil Publication for Oil Producers

ESTABLISHED 1916

MEMBER AUDIT BUREAU OF CIRCULATIONS

VOL. XXVII—NO. 4

When Winter Comes

FOR several months the question "What is ahead for the oil producer?" has been a common one. And at this stage of the game it doesn't take a person with prophetic powers to discern that some highty rough times are ahead. With the production of the United States last week at a point higher than it had ever been before in the history of the industry the production table which The OIL WEEKLY carries each week answers the question.

Whether or not there has been drilling curtailment, the fact remains that production has not been curtailed. Stocks continue to pile up and a record breaking summer's consumption of gasoline is now a thing of the past, with winter practically on us.

With the exception of one small section of the United States, the crude market is weaker and should be weaker right now than it has been in months.

Although the crude oil market has been a pretty peculiar thing, and events have transpired in the past which have left the industry gasping as to the cause, it is a safe assumption that the powers that be are not as anxious right now to build storage to take care of the over-production as they were a year ago. The threatened pick-up in consumption of all refined products has not been what was expected. And the production of crude has been more than was expected.

Nobody knows or can have a definite idea as to where the over-production will stop. Government restriction may cut it down some, but it will take a 200,000 barrel a day cut to strengthen the market right now.

It will do no good to cut down drilling in sections where the wells have small initial production, and then make up for it by drilling where big wells still boost the grand total.

Since we started to "curtail" there has been an increase of almost 100,000 barrels a day production. With a few more weeks of such curtailment there will likely be a change in the market—but not for the better.

There is one consolation in the whole thing. The oil producer has become so accustomed to operating at a loss or with little or no profit that maybe he can begin to get some enjoyment in just keeping behind the hearse instead of in it.

And after all,

"If winter comes, can spring be far beyond?"

Wild Guessing

RICHARD SPILLANE, of the Public Ledger has put himself in the class with Mr. Brisbane of the Hearst Syndicate, when he comes to expounding the workings of oil companies.

It is altogether pathetic that writers of standing will sacrifice common knowledge, for the sake of tickling the fancy of readers.

Commenting on the recent promises of stock disbursements by the Standard Oil Companies, Mr. Spillane tends to justify this action on the part of the oil companies, by pointing out that the nature of their business requires an enormous cash reserve. And it is to protect this reserve from the axe of the tax gatherers that the stock disbursements are promised.

But,—in explaining the necessity for the heavy cash reserve, or accumulated surpluses, the writer makes this crack; "The Standard Oil Company does no wildcatting. It buys proven wells; the testimony is that it pays a fair price, etc."

A pure guess is alright, if it happens to be right. But a poor guess shows bad judgment. Like the father counseling his son: "Don't gamble, my boy. Don't ever bet on anything, unless you know you have a cinch."

The OIL WEEKLY wants only such subscribers as are engaged in the oil producing or pipe line business, or subbranches of the producing and pipe line business. It has no desire for investor circulaton, and it reserves the right and will exercise the right to reject subscriptions coming from persons whose only interest in the oil industry is through the purchase of oil stock.

R. L. DUDLEY, Publisher.

May Demand Withdrawal of Shut Down Order

Oklahoma operators so insistent that another mass meeting is expected shortly

By Grady Triplett

TULSA, OKLA., Oct. 18.—Another mass meeting of Mid-Continent producers likely will be necessary before the central committee on shut down and storage will reverse its plea to the department of the interior for a shut down of drilling in the Osage.

This seemed likely today in view of the hesitancy of committee members to act in the absence of M. M. Doan, chairman of the committee, who is out of the city. That the members individually are ready to ask for a removal of the shut down order in the Osage is indicated by statements, both public and private.

In the absence of the chairman, the members, however,are of the opinion that their actions should be put up to producers in mass meeting similar to that at which the committee was appointed August 12.

With the return of Chairman Doan, another committee meeting is due to be called. At that time the further action of the body will be decided, with indications pointing to the calling of another mass meeting.

That the committee had come to conclusions far different from those upon which it based its call for the shut down was indicated by a statement from W. H. Gray, committee member, who has acted as chairman in the absence of Doan. In this statement Gray pointed out that the conditions of the oil market has changed radically in the past few weeks, making it probable that the price of crude oil will be advanced shortly.

A meeting of the committee will follow the return of Chairman Doan, now away from Tulsa on business. If his wishes prevail, as is likely, the committee will then call producers of the Mid-Continent for another mass meeting, at which time its action will be put up for general approval or rejection.

The order affecting only the Osage and in reality, only Burbank, seems to have grown in disfavor since it was announced two weeks ago. The point was made repeatedly before the committee by a committee from the Osage Lesses Association that the order placed the whole burden of the shut down on a few operators of one field.

That the shut down committee contemplated general action throughout Oklahoma by calling upon the corporation committee to halt drilling in fields not controlled by the federal government is shown in the statement issued by W. H. Gray.

The call for the Osage shut down was made at an executive session of the committee. Why the plea was never made to the state corporation committee has not been explained.

At least until producers of the Mid-Continent can get some sort of a message to the department of the interior, through the existing committee or some other agency, the order will be enforced as to Burbank. Should another mass meeting be required, it will be several days before the federal agency can even be asked to rescind its order. Then it is a question of what attitude the department of the interior will take in regard to the Osage reservation. The statement issued by W. H Gray follows:

Statement by Gray.

W. H. Gray, acting chairman of the shut-down committee in the absence of M. M. Doan, gave out the following statement Tuesday:

"The shut down committee has not yet acted upon the protest of Osage operators in the matter of the shut down order for the reason that it is desirous of having a unanimous expression before doing so. Mr. Doan, the chairman of the committee, is absent from the city and full details and particulars have been wired to him and the committee is waiting for his reply, but I think I am safe in saying that the committee will request the commissioner of Indian affairs to withdraw his order shutting down operations in the Osage. In doing so the committee is actuated entirely by fairness to the industry as a whole.

"The committee finds itself unwilling at this time to ask the corporation commission to promulgate a like order covering the entire state, as was contemplated at the time of its request to the commissioner of Indian affairs for shut down in the Osage, as it appears extremely doubtful whether the corporation commission would be justified at this time in promulgating this order, although it probably would have been justified thirty days ago. But the continued rise in the price of high gravity oil and the insistent demand makes it unnecessary. Should this committee appeal to the corporation commission for such an order it would be promptly met with a protest from the large independent refining interests in the state that they are willing to buy oil and pay a price that would justify the producer in lifting it to the top of the ground.

"I believe that if conditions continue to improve in the next fifteen days, as they have in the past fifteen days, that the committee can terminate its labor. I think I can safely say that every large pipe line paying the posted price for crude oil is drawing on stocks and the producer has a right to expect an increase in the posted price in the very near future."

Aged Frenchman Says He Has System to Locate Oil

NEW YORK, N. Y., Oct. 18.—Press dispatches from Paris crediting Pierre Estines, experimenter and scientist of note with the discovery of a new method of locating crude oil and minerals and determining the exact depth of such deposits, are regarded with interest here. The report that representatives of the Standard Oil Company and Royal Dutch-Shell interests are prepared to offer every facility at their disposal for thoroughly testing Abbe Estines' method cannot be confirmed, although such a step by two of the world's largest oil producers would not be unlikely if the Frenchman's discovery is of real significance.

Except that it is based on radio-activity, Estines, who is said to be 72 years of age, has refused to give out any information on his method of detecting. The dispatches state that he has been experimenting on the method since 1909 and that if it proves a success in every way he is disposed to place it at the disposal of the government. "As soon as I have finished exploring in the Pyrennees," the Abbe is quoted as declaring, "I shall be glad to place my invention in the hands of the government. It can be used to detect underground riches not only in France, but in Morocco and Algiers."

Estines' instruments which he uses in making his tests can be used by anyone who has studied radio-activity, the dispatches state. He is quoted as saying that they weigh about 300 pounds and work best between 2 and 5 o'clock in the morning when the earth is at its coldest.

Coolidge to Address Gas Association Meet

Atlantic City, N. J.—Calvin Coolidge, vice president, will be one of the speakers heard by the fourth annual convention and exhibition of the American Gas Association, here October 23 to 28. Others on the program are W. D. B. Ainey, chairman of the Public Service Commission of Pennsylvania; John S. Irvine, president of the Master Plumbers of the United States; A. C. Fuller, president of the Fuller Brush Co.

Some 2,000 delegates are to attend the convention. More than 150 booths have been provided for displays. A feature of the board walk display will be a model gas plant, complete in every detail.

Wichita, Kans., Oct. 16.—It is estimated that earnings of the Kansas-Texas Oil Corporation for the third quarter, ending September 30, will approximate $120,000. The eighth quarterly dividend of 1¾ per cent has been declared by directors of the company in New York and is now being paid.

Long Beach, California, field, from the air. This photograph taken from a position looking east, shows "Signal Hill," where the derricks are thickest, the discovery point of the field, and also the northwest extension, and the coastal plain extending away toward Los Angeles, in the background.

The Pacific Ocean is beneath and to the rear of the position of the photographer.

This field is now making more oil than any other single field in the United States. The average daily production per well is just short of a thousand barrels, for the whole field. It is located within the corporate limits of the city of Long Beach, one of the most beautiful residence cities of the West Coast. The field was discovered by the Shell Company of California, about 15 months ago. It is the "Little Company's Paradise."

One of the boulevards leading to Los Angeles is plainly visible in the distance.

California Over-Production Becoming Serious

Excess is already 80,000 barrels with 61,000 barrels closed in—some shipping to east coast

By B. V. Ellzey

LOS ANGELES, CAL., Oct. 17.—With an excess production of 80,000 barrels a day in this state, the only effective effort that is being made to limit recovery of crude is the shutting in of old wells in the fields producing heavy oil, mainly in Kern River and Coalinga fields.

More than 1700 wells have been capped and 61,000 barrels a day is thus closed in. If the wells were open, there would be an excess production of 141,000 barrels a day over the present demands.

More wells are drilling now than at the same time last year, and these wells are concentrated in the new fields of the southern part of the state where the production per well is uniformly high.

Reducing the price of crude oil to a basis of 60 cents a barrel has had no effect on drilling.

Crude oil production has increased every month for the past 11 months and the present recovery is greater than at any time in the history of the state, even forgetting about the 61,000 barrels a day that is shut in.

September statistics on production are not yet available, but careful estimates put the daily production at this time above 420,000 barrels. With the program of drilling new wells without storage or consumption, it is believed that the daily output of this state will continue to grow.

Long Beach may not produce much more than it is now producing, but Huntington Beach and Santa Fe Springs are rapidly increasing and work is being pushed in other southern fields. There is no let up in sight, so far as drilling is concerned, and nothing new apparent that can stop the continued increase in production unless it be the closing in of additional wells.

It is estimated that 80 per cent of the crude now being produced is above 20 gravity and therefore refinable oil. This percentage has been raised by the closing in of the heavy oil in Kern River and Coalinga and by the increase in production from the light oil fields of Los Angeles and Orange Counties. There is, therefore, not more than one-fifth of the present production unfit for anything but fuel.

The gasoline content of California crude, an average of that refined in the state is roughly 16 per cent by volume.

So far very little oil has been shipped from California to the East Coast. Two Sun Company tankers, two shipping board vessels and one Standard Oil Company

Portion of the Cushing field in Oklahoma which continues to hold title of the greatest light oil producing field in the world. Photo by Clarence Jack, Tulsa.

Oklahoma-Kansas Oil Men Gather at Tulsa

Mid-Continent Association officials render reports and banquet closes session

TULSA, OKLA., Oct. 18.—Representative leaders in the oil industry in Kansas and Oklahoma were here today attending the annual meeting of the Kansas-Oklahoma division of the Mid-Continent Oil and Gas Association and taking part in the activities of the Southwestern Business Congress which opened this morning under the auspices of the Tulsa Chamber of Commerce.

The two events proved an added attraction to many from outside the state and away from Tulsa and as a result the attendance at the association's annual gathering was good. Bert H. Collins of Tulsa as president of the division, which includes Kansas and Oklahoma oil men, acted as chairman.

After the day's business session, which included the election of members to compose the division's executive committee, came the annual banquet at the Hotel Tulsa, which was largely attended. The banquet began at 6 o'clock and the speakers were William N. Davis of Bartlesville, president of the general division of the Mid-Continent Oil and Gas Association; Pat. M. Malloy of the Constantin Refining Company, R. F. MacArthur of the Barnsdall Oil Corporation and Dr. John Cavanaugh of Washington, D. C.

Program of Expansion

The regular business session of the division convened at 1:30 o'clock in the afternoon in the offices of the association in the Cosden building. A program of expansion and enlargement was decided on, which will include widening the scope of activity of the divisional executive committee and will provide for an increased financial budget for the ensuing year. The various official reports were submitted and approved and the growth of the Kansas-Oklahoma division during the last year was recounted by President Collins and Secretary Harry H. Smith.

Executive Committee

The new executive committee which was elected will meet shortly to name the officers of the association for the next year. Members of the new executive committee are: E. Z. Aaronson, Tuloma Oil Company; R. E. Alexander, McEwen Manufacturing Company; J. W. Bates, Roxana Petroleum Corporation; L. G. Bradstreet, Bradstreet Oil Company; Frank M. Breene, Winona Oil Company; Thomas Chestnut, Chestnut and Smith Corporation; J. K. Cleary, Marland Companies; H. N. Cole, Pure Oil Company; Burt H. Collins, Echo Oil Company; Arthur H. Craver, Noble Oil and Gas Company; Jas. K. Crawford, Brothers Oil Company; Geo. A. Dye, Wilcox Oil and Gas Company; Chas. F. Farren; W. C. Franklin, Tidal Oil Company; J. S. Griffin, Griffin Production Company; R. A. Griffith, Sinclair Oil and Gas Company; H. B. Gutelius, Plymouth Petroleum Company; J. R. Hadley; J. H. Hill, Texas Company; J. A. Hull; R. P. Humes, Transcontinental Oil Company; L. B. Jackson; P. J. Hurley, Gilliland Oil Company; Dana H. Kelsey, Prairie Oil and Gas Company; W. L. Kistler, Producers and Refiners Corporation; C. C. Lakin, Standard Oil Company (Indiana); T. O. Lillystrand, Oklahoma Producing and Refining Corporation; J. M. Lovejoy, Amerada Petroleum Corporation; Pat Malloy, Constantin Refining Company; J. H. Markham, Jr.; D. B. Mason; Henry McGraw, Gypsy Oil

---

tanker have been loaded at Los Angeles harbor for Atlantic ports. Two Standard of New Jersey vessels are scheduled for calls here soon. The William Rockefeller cleared port here yesterday with a cargo of fuel oil for Philadelphia. It is understood that the Sun Company vessels and the shipping board vessels all took on crude oil. The movement of oil from the West to the East coast so far has not affected the situation at all. With the present excess of production over consumption it would take at least a cargo a day to relieve present over-production. Nothing like this is contemplated.

Some of the companies building wharfage and docks at this harbor are expected to add somewhat to exports but there is no hope entertained that the movement of crude or fuel to the Atlantic coast can possibly increase to the point where California's surplus oil will be absorbed.

The cost of shipping crude or fuel oil via the canal to New York or New Jersey points runs from 75 to 80 cents a barrel. The cost varies considerably. Some estimates put it as low as 70 cents a barrel. It depends somewhat upon who is moving the shipment, size of tankers, whether or not such tankers would otherwise be in service or laid up, return cargoes, etc. Unrefinable crude oil is 60 cents a barrel in California. This crude is used for fuel only. Refinery residuum fuel is slightly higher in volume prices. Roughly it may be said that fuel oil in volume could be delivered in New York from California at a total cost of $1.50 to $1.60 a barrel.

Shut Down Movement Seems to Be Talk Only

Average production of crude increases, big well at Teapot Dome and there is a row on in Oklahoma

HOUSTON, TEXAS, Oct. 19.—The story is a sad one this week—from the standpoint of the producer of oil who would like to see an increase in the posted price of crude oil. The daily average production of crude in the United States for the week ending October 14, was 1,585,385 barrels, according to estimates compiled by The OIL WEEKLY. This is an increase of more than 8500 barrels over the previous week and an increase of almost 45,000 barrels over the first week in September.

The shut down move started in September so far has had no effect, and many have begun to wonder if the movement ever passed the talking stage.

The Texas production is up some, due to new wells in the Gulf Coast, although the fields of North and Central West Texas showed declines. Arkansas and Louisiana both show declines in daily average production, while the Mountain States and the Eastern States show slight gains in output.

But the fly in the ointment is California. The daily average of California has reached a high point of 420,000 barrels, the record output in the history of the fields of that state. There is considerable new work going on in the West Coast fields and no relief is in sight. Several years ago, happenings in California bothered no one on the East Coast or in the other oil sections of the country. This is true no longer. The California oil man is reaching across the continent and a few cargoes of oil have been shipped from the West Coast and unloaded at Atlantic ports. California fuel oil can be laid down in New York for $1.50 a barrel. This will mean competition, if it does not already mean it, with east of the Rockies crude.

And Teapot Dome should no be forgotten. This naval reserve has been turned over to the Mammoth Oil Company for development. Twenty-two wells are to be drilled as the first part of the program. Two producers have been drilled in and they have been closed in, waiting for storage and pipe line. The first one is said to be a big well. No. 2 is not so big. Three other wells have found the pay. Before long a lot of oil will come from this reserve to assist in piling up crude above ground.

But the real battleground is now in Oklahoma. That order for a shut down in the Osage was received in silence in most quarters, but producers are not often accused of staying in their corner quietly when they are hit. The howl is going up, and the shut down committee that recommended the action taken by the secretary of the interior has heard the howl. The committee is making sounds like it wonders what is best to do next. Now they are discussing a mass meeting, and when the speeches are over it is predicted that the committee will wire Washington that there is no longer any need for the order since it cannot be applied to Oklahoma as a whole.

And in the meantime, the daily average production in Oklahoma shows another increase and there is evidence that more work in the fields of that state is under way. In fact there is an increase in number of new rigs and a gain in the number of completions.

Even Kansas is waking up and a number of new tests are starting in Butler and Cowley Counties.

Production and shipments of Mexican oil is still on the decrease and stocks of crude in Mexico are being drawn upon every week to provide cargoes for the tankers still in the trade. The rainy season is on in Mexico and practically no new work is being undertaken. Wildcatting cannot progress until December at the earliest.

The market for crude oil and its products is uncertain. Refineries are beginning to curtail their runs. Hence the payment of premiums is easing off. Gasoline demand is also easing off and the demand for kerosene is not as strong as it should be at this season.

Company; J. J. McGraw, Exchange National Bank; P. M. Miskell, Empire Refineries; Clint Moore; C. H. Pape, Selby Oil and Gas Company; E. R. Perry, Cosden and Company; C. B. Peters, Middlestates Oil Company; Waite Phillips, Waite Phillips Company; R. C. Sharp, Oklahoma Natural Gas Company; Judge J. J. Shea; W. G. Skelly, Skelly Oil Company; J. W. Sloan, Oklahoma Tool and Supply Company; C. W. Titus; H. C. Tyrell, Pulaski Oil Company; James A. Veazy, Carter Oil Company; P. G. Walker, Jr.; C. T. Wilson, Petroleum Company; C. J. Wrightsman, Wrightsman Oil Company, all of Tulsa; and Wirt Franklin and Max Westheimer of Ardmore, Okla.; Burdette Blue, Indian Territory Illuminating Oil Company; Wm. N. Davis, Foster and Davis; H. R. Straight, Empire Gas and Fuel Company, all of Bartlesville, Okla.; and Charles Owen of Caney, Kan.; C. L. Freeland of Bristow, Okla.; W. L. Jeffords, of Chelsea, Okla.; R. C. Jones of Cushing, Okla.; H. H. Champlin of Enid, Okla.; R. A. Broomfield of Los Angeles, Calif; T. T. Eason of Marlow, Okla.; D. N. Fink and J. H. McDonald of Muskogee, Okla.; D. F. Connolly of New York City; C. C. Harmon of Nowata, Okla.; B. B. Blakeney, J. R. Cottingham and J. K. D. Shaffer, all of Oklahoma City; C. L. McMahon and W. E. Wood of Okmulgee, Okla.; W. H. England and E. W. Marland of Ponca City, Okla.; A. M. Landon of Independence, Kans.; A. L. Derby, L. L. Marcell and Fred B. Stanley, all of Wichita, Kans.; Geo. E. Black of Pasadena, Calif.; Fred B. Howland of Titusville, Pa., and E. E. Schock of St. Louis.

Those at Banquet

Among those in attendance at the banquet were L. E. Phillips of Bartlesville; C. R. Burke, Oklahoma Natural Gas Company; H. F. Miller, Carter Oil Company; D. E. Foster, J. H. Brennan of the Barnsdall Corporation; James A. Veazy, Carter Oil Company; J. A. Sivalls and Glenn Skinner of Bartlesville, Black, Sivalls and Bryson, Inc.; W. M. Bartles and James H. Gardner, Gardner Petroleum Company; J. K. Lipscomb, H. F. Wilcox Oil and Gas Company; Harry Thorpe of Sapulpa; R. A. Clymer of El Dorado, Kans.; J. E. Sloan of Kansas City, Black Steel and Wire Company; J. B. Steel, Kewanee Oil and Gas Company; W. H. England of Ponca City; Wirt Franklin of Ardmore; A. L. Farmer, R. S. McFarland, Clint Moore; C. C. Lakin, of Standard Oil Company (Indiana); R. A. Griffith, Sinclair Oil and Gas Company; Burdette Blue of Bartlesville, Indian Territory Illuminating Oil Company; William N. Davis of Bartlesville, president Mid-Continent Oil and Gas Association; William O. Owen of Caney, Kans.; F. W. Freeborn, Frank M. Breene, A. V. Bourque, Geo. D. Foster, M. K. Jankowsky, Frank B. Long of Sand Springs, Okla.; C. C. Herndon of the Skelly Oil Company; Thomas Chestnut of Chestnut and Smith Corporation; Dana H. Kelsey of the Prairie Oil and Gas Company; A. H. Black of Independence, Kans., Black, Sivalls and Bryson, Inc.; H. A. Meyer of the Prairie Oil and Gas Company; M. J. Beaty ofthe Wolverine Oil Company; L. B. Briddle of the Shaffer Oil and Refining Company; C. E. Roth of Independence, Kans.; W. H. Edgett of Caney, Kans., Owen Osage Oil and Gas Company; Hayes McCoy of Bartlesville, Empire Gas and Fuel Company; R. F. MacArthur of the Barnsdall Corporation; T. O. Lillystrand, Oklahoma Producing and Refining Corporation; L. P. Harrington, Oklahoma Producing and Refining Corporation; C. J. Wrightsman; F. C. Shugart of the Bovaird Supply Company; Geo. H. Myers of the Amerada Petroleum Corporation; D. F. Connolly of the D. F. Connolly Agency; L. P. Monahan of the D. F. Connolly Agency; J. H. Crocker of Cosden and Company; W. O. Owen of Caney, Kans.; J. J. McGraw ofthe Exchange National Bank; M. J. Kolb of Bagley, Minn.; J. M. Parker of the Mission Oil Company; C. W. McKeen of Barnsdall, Okla., Barnsdall Corporation, and others.

Tulsa, Okla., Oct. 17.—Harry C. Stehr, formerly insurance engineer with the Empire Gas and Fuel Company at Bartlesville, now is insurance manager for the Exchange Trust Company of Tulsa.

Petroleum Institute To Meet in St. Louis

New York, Oct. 17.—The American Petroleum Institute will hold its third annual convention at St. Louis, Mo., the first week in December, it was decided at the last meeting of the directors of the institute.

The program and details of the meeting will be announced at a later date.

Osage Agency building at Pawhuska, Oklahoma

New Headquarters Building for Richest Indian Tribe on Earth

PAWHUSKA, Okla., Oct. 16.—Affairs of the Osage Indians, richest people in the world, are now being directed from the new headquarters building. Nearly a year was required to complete the structure, which was built from sandstone, quarried on the reservation.

Wealth of the Osage Indians is always "estimated," much after the fashion financial writers are comparing the wealth of Henry Ford and John D. Rockefeller. Something is known of the incomes of these men of affairs. From that wealth is estimated.

Likewise something is known of the income of the Osage tribe. September 18 last, paying forces of the Osage Agency went on an expedition of three days, during which they handed out $4,000,000, being the quarterly installment for the year 1922. On that basis the Indians, numbering fewer than 2,500, have an annual income of $16,000,000.

Under the payment scheme of September, unrestricted members of the tribe received $3,100 each, Indians not yet adjudged competent were paid $1,000 each, while minors were left only $500 each.

Since the first Osage sale of oil leases was held in 1912, the oil industry has placed $62,501,176.58 in the coffers of the Osage Agency as bonus money for the privilege of drilling on 593,242.45 acres of land.

That, however, is only a part of the wealth of the Osage tribe. Royalties from Osage leases run from one-fifth to one-sixth of the oil produced.

In the new building, J. George Wright, superintendent of the Agency, has his office on the first floor. George N. Wise, general disbursing agent, is on this floor. A meeting room for the Osage Indian council is on the second floor. Other offices use part of the second floor.

Plans for the building were prepared by A. E. Middleton, architect for the Department of Interior at Washington, who has charge of plans for buildings of the various Indian agencies.

TEXAS COMPANY PRODUCTION OFFICIALS HOLD MEETING

Houston, Texas, Oct. 18.—A meeting of the managers and superintendents of production for The Texas Company was held in Houston last week from the 10th to the 15th.

Those who attended were, D. J. Moran, general manager of production for The Texas Company, and his two assistants, J. C. McCue of Fort Worth and J. H. Hill of Tulsa; H. B. Simcox and V. L. Porter, both of Houston, assistants to the manager; J. L. McMahon, general superintendent North Texas division, Wichita, Texas; L. E. Barrows, general superintendent of the North Central division, Parks, Texas; C. R. Wilson, general superintendent of the Oklahoma division, Tulsa, Okla.; R. C. Stewart, general superintendent of the Louisiana division, Shreveport, La.; W. V. Bowles, general superintendent of the South Texas division, Houston, Texas; and D. F. Connally, New York.

Chicago, Ill., Oct. 16.—The regular cent (1¾%) on the preferred stock of Producers and Refiners Corporation has been declared, payable Monday, November 6, to stockholders of record at the close of business October 23, 1922. Transfer books do not close.

Standard of N. J. to Be Kind to Its Stockholders

NEW YORK, N. Y., Oct. 14.—Another of the Standard Oil group, this time the parent company, is going to remember its shareholders in a very nice way. Stockholders of the Standard Oil Company (New Jersey) have been called to meet in special session November 8 to vote on a proposal of directors to increase the authorized common stock from $110,000,000 to $625,000,000 and if approval is given the directors further propose to pay during the current year a stock dividend of 400 per cent in $25 par common stock. In effect this will increase outstanding common stock to approximately $500,000,000 and the balance of the proposed increase, some 4,600,000 shares will be held in the company's treasury to meet future needs.

This is the third melon to be cut by the Standard Oil group within the last two weeks. The Standard of California will distribute a bonus of $262,524,888 in stock, and the Standard of New York plans to disburse some $298,149,995 in stock. Including the New Jersey company's dividend ,the total disbursements of the Standard group so far is $1,230,564,614 in stock.

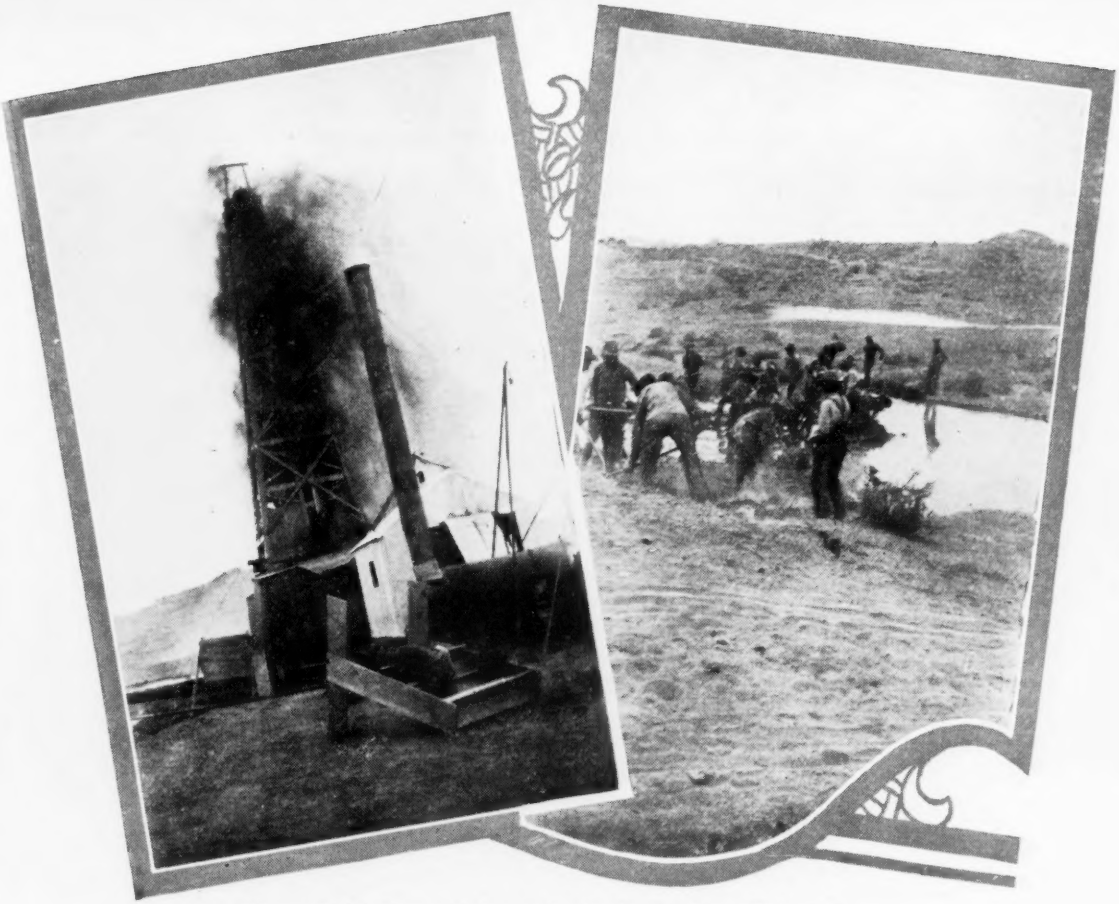
Chairman W. C. Bedford of the New Jersey company has made this statement to stockholders: "The directors feel that the shareholders should be advised that in view of the requirements of the company for capital investment, the directors have no purpose to increase the aggregate amount of dividend disbursements at the present time."

As regards the proposed increase in authorized common stock, Chairman Bedford stated:

"With the exception of an amount of $1,056,625 par value of common stock issued to the trustees for the employes of the company, under the stock acquisition plan, there has been no material increase in the issued common stock of the company since 1899. In the years 1919 and 1920 there was created to meet new capital requirements $200,000,000 par value of preferred stock.

"Throughout the 23 years since 1899, it has been the policy of the company to reinvest in its business all earnings remaining after the disbursement of dividends, and since the year 1911 there has been no change in the regular rate of dividend then established. During this whole period the substantial growth of the company's business in line with the growth of the petroleum industry generally, has resulted in considerable augmentation of its assets, largely by reason of the profitable employment of such surplus earnings.

"The situation which has ensued has been one of steadily increased disproportion between the company's issued capital and its net assets. The directors, therefore, propose the increase in capital as above outlined and in the event of such increase being authorized by the shareholders they propose to declare and pay during the current year to the holders of common stock a stock dividend on the basis of four new shares of $25 par value for each such common share outstanding. This will have the effect of increasing the issued common stock of the company to approximately $500,000,000. The balance of the proposed increase, about 4,600,000 shares will be held in the treasury to meet such needs of the company as may arise in the future."



Mammoth Oil Company's first gusher in Teapot Dome "Going Over Top." Building earthen storage to catch the oil.

To Open Teapot Dome Wells Early in Week

Gravity pipe line from producers to tank farm nearly ready—other wells show

CASPER, WYO., Oct. 19.—Both the big well brought in by the Mammoth Oil Company on its Teapot Dome tract, and the smaller well which came in a few days after the first one, are now shut in awaiting the construction of a pipe line to a tank a short distance away.

The first well showed by actual guage slightly less than 9,500 barrels within a 24 hour period before it was successfully shut in. It hit a stray sand at a depth of 1515 feet, and flowed over the crownblock for a considerable period. The oil was collected in earthern reservoirs until the well was shut in.

The second well, which got a stray sand at a depth of only 1300 feet is rated, as reported in last week's Oil Weekly, as a fair pumper.

Both of these wells got oil before reaching the sand at which production was expected. A study of this district reveals minor faultings and it is believed that the drill entered a crevice in which oil had accumulated from surrounding shale.

One operator remarked yesterday that the oil well of the Mammoth on Teapot Dome was an accidental well in that it was not expected to reach the regular sand for a considerable depth below 1500 feet.

"It's an accident, and such production is bound to be spotted," he said.

Another operator who has been following the trend of the market, was heard to answer.

"If that well was an accidental well, what the —— can be expected when they get what they are really drilling for."

The two wells are about 125 feet higher than the tank farm which is under construction and when the pipe line is completed the first part of next week the wells will be opened and allowed to flow. Gravity flow will move the oil to the tank farm.

On section 3 another well was drilled late Saturday night into the first Wall Creek sand. It filled up to 1200 feet with water, the bottom of the hole being 2200 feet.

Work on the Mammonth Oil Company's camp at Teapot Dome is progressing, many of the buildings, including a number of cottages for the employes, being finished.

A flow of oil was tapped by the Mammoth Oil Company on the NE¼ of section 15-38-78 on Wednesday which makes the fifth well in which there has been a showing thus far in the development of Teapot Dome. The output was not in large quantities and the hole is being continued to the second Wall Creek. This strike is just a mile southwest of the gusher which was opened last week and is the farthest south in which production has been encountered in the field.

The wide spread of the territory in which these strikes have been made tends to prove that practically the entire area is productive and with the drilling in of the wells in the second Wall Creek, an enormous output is expected.

The two wells in the north end, which are standing cemented will probably not be drilled in until next week as it is necessary to make pipeline connections with the storage tanks in order to handle the output. This is being done and with its completion the productivity of the lower sands will be made known.

Public Does Not Understand Business

Mid-Continent oil men at Dallas are told that taxation system is unjust

DALLAS, TEXAS, Oct. 16—The fourth annual gathering of members of the Texas-Louisiana Division of the Mid-Continent Oil and Gas Association was held here last Friday in conjunction with Oil Men's Day at the State Fair, and the steady growth in membership of the Association was attested by the marked increase in attendance over any previous meetings.

The short business session held before noon in the Adolphus Hotel was largely confined to the reading of Secretary Howard Bennette's report covering the accomplishments and activities of the Division for the past twelve months, followed by an election of officers in a special session of the executive committee. The afternoon was given over to various forms of amusement for the visitors, especially arranged for by an entertainment committee, followed by an informal banquet in the evening.

J. D. Collett, an independent oil operator of Fort Worth, was selected by the executive committee to serve as president of the Division for the ensuing year, and the four vice-presidents elected were: Roy B. Jones of Dallas, Clyde M. Bennett of Shreveport; W. B. Pyron of Wchita Falls, and J. C. Wilson of Beaumont. Howard Bennette of Dallas and W. M. Massie of Fort Worth, were re-elected secretary and treasurer, respectively, while Joseph B. Elam will continue to serve the division as assistant secretary with headquarters at Shreveport. A general executive committee was selected to represent the Texas-Louisiana division when the parent organization meets to discuss policies and activities of a national or general nature, in addition to a local executive committee, whose duties will be to attend to all matters of a local or State concern.

President Collett presided as toastmaster at the banquet given in the junior ball room of the Adolphus Hotel, and during the course of the meal, music was furnished by a jazz orchestra. A number of humorous jokes and stories by Dr. J. J. Simmons of Dallas with Cartoonist Jean Knott of the Dallas News illustrating same were digestive aids to the diners, followed by several songs, vaudeville acts and a classical dancing act from a local theatre.

Declaring that the allied branches of the oil industry should co-operate in opposing the present system of taxation, and use their combined influence in preventing additional taxes being levied, President Collett in his preliminary speech pointed out that this condition has arisen because of politicians being misinformed regarding the net profits being made by the oil companies and independent operators. Stress was also made on the fact that only a minor portion of the present taxes collected from the oil industries within the state is spent in behalf of the industry. Mr. Collett predicted that in all probabilities some changes would be made regarding the existing tax schedules in the near future. A few comments were also made by Mr. Collett regarding the present overproduction of crude oil throughout the country along with a warning that less oil must be brought to the surface to restore the crude market to normalcy.

R. W. Hassell, chief supervisor of the oil and gas division of the Texas Railroad Commission, responded with a brief talk pertaining to the "jazz element" in the oil industry, which he charged is largely responsible for the general public forming an opinion that an oil man inevitably realizes great wealth from his adventures. This class of oil men, who generally are promoting a company by selling stock or shares, are harmful to the industry he further stated, and serves to cause public sentiment in favor of additional taxation burdens.

That it is more important for oil companies and independent operators to know the valuation of their holdings than the Government, was emphasized by S. M. Greenridge, assistant chief of the valuation department of Internal Revenue with headquarters at Washington, D. C., who was an invited guest at the banquet. Mr. Greenridge spoke on the duties of his department in determining the valuation of producing properties, and pointed out that a less number of oil concerns would be in the defunct class today if more attention was paid to the current financial condition of the organization. He also remarked on the high percentage of honesty that the oil industry has established in submitting their valuation reports to the Government, as compared with other industries, stating that only one case of fraud was developed from over 700 reports turned in by oil concerns.

C. C. Hedges, member of the faculty of A. & M. College, spoke in behalf of the students of the institution that have had the advantage of hearing the lectureships given on the various branches of the oil industry through the courtesy of the Mid-Continent Oil & Gas Association, and stated that the students are greatly benefitted in a theoretical way. He also called the oil men's attention to the dire need of financial aid through increased taxation for the College to erect dormitories for the many students that are now quartered in tents on the campus.

Silver fountain pens were presented to Frank Cullinan of Dallas, retiring president, and Mr. Collett by the Division in behalf of their past services, with Judge A. B. Flanary of Dallas making the presentation speech. A present was also tendered to H. J. Morlang of Fort Worth in token of the regular attendance of meetings and services rendered while serving as a member of the executive committee.

Pittsburgh, Pa., Oct. 16.—Transportation conditions still are largely governing the trend of production and prices in the steel industry.

More tank work is in sight and this end of the business is furnishing good prospective trade as well as actual orders, and has been brought about largely by low price of crude and disposition of many interests to store against the coming of an improved crude market. An inquiry from Sinclair Company will require approximately 5,000 tons.

Wichita Falls, Texas, Oct. 18.—The west edge of the South Electra field scored a 400-barrel producer early this week from the 1600-foot sand when the Petroleum Producers Company's No. 10 W. T. Waggoner, in section 33, drilled into 10 feet of sand for a total depth of 1625 feet.

Situation Has Not Changed

Whatever action is taken by the coming mass meeting of Oklahoma oil producers, here is one thing which the producers should not lose sight of. Despite any predictions or optimism on the part of members of the shut down committee, the situation has NOT changed for the better.

It may be unfair for one particular section to be shut down, but if we were the Indian Commissioner we would view the matter from the standpoint of the Indian wards of the government, and restrict drilling. It would be the height of absurdity to ask the government to assist the producers in maintaining a high price of oil. But it is not unreasonable for the government to take steps for its own protection and that of its wards, which, at the same time may have a beneficial effect on the oil industry generally as a side issue.

Apparently the committee has got itself in a jam, and is honestly endeavoring to get out the best way possible. It is a pity that there cannot be a unanimity of action among producers through which a general restriction of oil production could be brought about.

Fear Too Free Offering of Crude Oil

Refineries are curtailing runs as approach of cold weather reduces gasoline consumption

TULSA, OKLA., Oct. 18.—Approach of colder weather throughout the East and Middle West is reducing consumption of the lower grades of motor fuel, including navy gasoline, and a slackening in refinery crude runs already is in sight in the Mid-Continent field. This turn of affairs is being watched closely by the major oil purchasing agencies which now are faced with the prospect of more crude being offered them as a result of the slump in the refiner's demands. Whether this surplus oil which has been diverted from common carrier lines into refiner's tanks will be enough to threaten an overload cannot be determined at this time, but if such be the case there likely will be a revision in crude prices before the end of November.

May Reduce Crude Runs.

Both runs and deliveries of the Prairie Pipe Line Company are holding up at this time, although officials are free to admit that there is a likihood of their eastern and middle western connections reducing the amount of their takings after the close of this month. This opinion is supported by the knowledge that deliveries are prone to reflect the trend of the domestic refined market, especially in the middle west and portions of the East, and that a slackening in the gasoline demand all over the country will reduce the amount of crude run through stills and this means less oil from the common carriers. Sinclair's runs have not shown any material change since the first of the month and deliveries are maintaining a fair average so far.

Aside from the flush recovery in the Burbank and Tonkawa pools in Oklahoma, the State's production trend is indicating a tendency to straighten out a bit and an easier feeling prevails. However, despite the government's action and the latest measures of the central shut-down committee the high point in Burbank is still around 83,000 barrels while Tonkawa has climbed to the 17,500 barrel mark. If the interior department's orders calling off drilling of any new wells is made to stick, or rather if the central shut-down committee does not rescind it's former recommendation for a cessation of activities in the Osage Nation, the crude recovery in the reservation will begin to show a falling off within a short time and the present high production will have been the peak. But, there is good indication that the central shut-down committee will ask for the lifting of the drilling ban and after that weather conditions will do more towards holding down the output than any other agency or movement.

Refinery Runs Ease Off.

Refinery runs in the Mid-Continent are easing off from the high point touched on October 1 and by the close of this month the total of crude takings will be more in line with the demand for finished oils. Reduction in tank wagon schedules in Nebraska, Oklahoma and Texas and in Ohio and in Atlantic seaboard territory which have followed the cut in Standard of Indiana territory is an indication of the consumer market at this time and quotations on all grades of motor fuel except the higher gravity are softening. Navy gasoline is being offered rather freely in Group Three territory at 12 cents and naphtha is selling for around 10¼ cents. Fifty-six fifty-eight, four fifty end point, gasoline is a little more difficult to obtain in this field right now. The higher gravity gasoline is holding comparatively firm and is being offered freely. There is little or no sixty-four gasoline being taken up for export just now. Union Petroleum Company is not in the market on this grade any longer, but is seeking some forty-one prime white kerosene for foreign destination.

Fuel oils and other burning oils, including kerosene and light distillates, are moving in good fashion and the season for them is on. The consumption of these products for domestic heating purposes this winter likely will be above the average of last year and the makers of heating applicants report their business good. Fuel is selling on the open market at around $1.05, seller's cars. In this connection the figures on consumption of fuel on railroads for the first seven months of 1922 are interesting in that they show a healthy and very promising increase over the corresponding period of last year. The roads consumed 831,923,000 gallons of oil from January through July, which is an increase of some 20,000,000 gallons over the first seven months of 1921.

Tank Car Situation Better.

The tank car situation is improving by slow degrees. The congestion in this field is constantly reflected in the condition of the Kansas City and St. Louis terminals. The situation in St. Louis is about the same except that the Terminal Railroad there has lifted restrictions on the Pennsylvania and Baltimore and Ohio lines which permits these two roads to accept oil shipments. The Kansas City terminal is some better. The movement of tank cars westward on the Santa Fe continues good, although there is some congestion in eastbound business. The Rock Island and the Wabash are short of power and congestion on shipments north and east is bad. The Missouri Pacific's line north now is open, although some accumulation is reported in Kansas City yards for the M. P's St. Louis line. The other lines are reported in good or fair shape to handle all business offered them.

MIRANDO CRUDE SHIPPED TO ARANSAS PASS, TEXAS

Aransas Pass, Texas, Oct. 16.—The Swiftsure Petroleum Company, Houston, Texas, made its first shipment of oil from the Mirando field by tank cars which reached here today. Two 55,000-barrel concrete storage tanks have been erected by the company at Aransas Pass and it will be shipped from here by boat to its refinery at Texas City, Texas.

The Swiftsure Petroleum Company is purchasing this oil from operators of the Mirando field and the minimum shipments to Aransas Pass will be 45,000 barrels a month which the company expects to increase to 100,000 barrels by the first of January, 1923.

AVERAGE DAILY PRODUCTION FOR ALL UNITED STATES FIELDS
(Stated in Barrels)

This table is carried each week by The OIL WEEKLY, and shows daily production average for each state or section. Figures for Texas, Oklahoma, Kansas, Louisiana and Arkansas are compiled by The OIL WEEKLY, while estimates for the Mountain States, Eastern States and California are furnished by the American Petroleum Institute.

Week Ending—	West Texas	North Texas	Texas Coastal	Total Texas	Kansas	Oklahoma	Louisiana	Eastern States	Wyoming- Montana	Cali-fornia	Arkansas	U. S. Total
Jan. 7, 1922....	199,220	66,410	108,145	373,775	88,050	311,850	94,475	115,500	59,625	320,000	45,530	1,406,805
Feb. 4	206,225	64,695	108,600	383,230	83,800	323,465	103,195	115,500	58,000	325,000	37,560	1,426,040
March 4	218,275	59,855	104,670	382,800	82,450	342,400	126,805	110,000	57,800	310,000	32,515	1,444,770
April 1	197,170	59,620	101,185	357,975	81,900	366,900	128,530	114,500	71,150	325,000	34,650	1,480,605
May 6	168,720	62,270	113,350	344,340	85,200	391,500	87,725	119,000	74,850	330,000	37,700	1,470,315
June 3	155,900	62,445	113,855	332,200	86,100	399,400	98,360	111,500	79,000	350,000	37,395	1,493,955
July 1	147,305	63,020	107,100	317,425	92,000	415,600	94,795	115,000	83,850	355,000	32,800	1,506,470
Aug. 5	150,230	69,055	105,805	325,090	91,675	420,250	94,350	120,500	85,200	375,000	32,105	1,544,170
Sept. 2	139,120	70,640	108,290	318,050	88,300	421,900	103,415	117,000	81,000	380,000	31,530	1,541,195
Sept. 9	139,778	71,715	104,680	316,173	91,000	420,600	101,095	113,000	82,850	385,000	30,335	1,540,053
Sept. 16	125,365	68,330	106,212	299,332	90,600	409,700	102,425	113,000	78,100	385,000	30,000	1,508,732
Sept. 20	139,940	67,130	106,845	313,915	88,900	424,500	99,615	116,000	83,600	410,000	34,960	1,576,670
Sept. 23	145,060	69,230	106,430	320,700	90,000	420,500	102,105	113,000	83,000	390,000	*37,510	1,556,815
Sept. 30	139,940	67,130	106,845	313,915	88,900	421,700	100,245	115,000	77,500	395,000	36,300	1,548,560
Oct. 7	136,795	68,625	113,385	318,805	89,190	424,500	99,615	116,000	83,600	410,000	34,960	1,576,670
Oct. 14	133,695	65,325	116,690	315,710	90,425	428,200	96,495	116,500	88,300	420,000	29,755	1,585,385

NOTE—Mexia production included in West Texas. *Includes Smackover field.

Crude Premiums 50 Cents in North Texas

Placing of export order for high gravity gasoline caused refiners to increase runs

WICHITA FALLS, TEXAS, Oct. 17.—The available supply of spot crude oil in the North Texas district has simmered down to such a small quantity that the market fluctuates within a few hours after the independent refiners make inquiries for deliveries, and when several buyers are in the market at the same time the crude owners make them bid against each other on size of premiums offered for the product. This condition was well illustrated during the past seven-day period. Early last week motor fuels were declining from one to two cents per gallon in various sections of the country, and domestic and export buyers withdrew from the gasoline market to await a stabilization of prices.

During this lull the refiners reduced their daily runs and kept out of the spot market, which automatically reduced premiums from 5 to 10 cents per barrel from their high level of 50 cents above the posted price. Later in the week and early this week an export order for high gravity gasoline was distributed among refiners at Dallas, Fort Worth and in Wichita Falls district, thereby causing these few plant owners to increase their daily crude needs to fill the order. The spot market was called upon to furnish the extra amount of crude needed, and the appearance of several buyers in the market resulted in premiums reverting back to the half dollar mark. The refiners are forced to meet all demands, since the North Texas crude is the only light gravity oil available at a reasonable transportation charge.

Although the daily average production of the North Texas oil fields is not declining very rapidly, there is a noticeably less amount of spot crude on the market due to independent producers selling their properties, or refiners tieing up the output of productive leases over a long period at a premium ranging close to 25 cents per barrel. A number of the producers now disposing of their crude on the spot market are endeavoring to make contracts with reliable refiners over a period while premiums are at a high mark, while on the other hand the average refiner waits until mid-winter when premiums are at a low level to make his contracts for the summer months.

The tone of the fuel oil market early this week was especially encouraging to the refiners in the North Texas district, due to a number of inquiries from railroads and industrial plants in addition to a good demand from small consumers scattered over the state. Fuel stocks do not exist in any great quantity, and a number of marketers and brokers are attempting to contract with the refiners for their entire output over the next month or two. While prices still range from 90 cents to $1 in the Wichita Falls district and about $1.15 at Fort Worth, shipments are brisker early this week, and further stiffening of quotations are predicted. Kerosene continues to find a ready market at 5 to 5¼ cents per gallon, and the demand is practically keeping pace with the output. Distillates and gas oil are also moving more freely.

Outside of a few export orders placed again this past week for high gravity motor fuels, the gasoline market could be described as being unusually dull. Domestic buyers are showing no interest in 56-58 and navy gasolines, despite the fact that refiners shaded their prices a full half cent during the past week in addition to reductions made when tank wagon prices first went down in various sections of the country recently. A small quantity of 60-62 and 64-66 gravity gasoline is moving to the north and east, but the buyers are balking on the prices quoted them. Natural gasolines have been hard hit in prices and demand as well as result of straight run products tumbling in prices, while naphthas have suffered a similar fate.

Crude Oil Prices

	Oct. 19 1922	Oct. 20 1921
LOUISIANA		
Caddo 38 gravity and above	$1.25	$1.25
Caddo 35 to 37.9 gravity	1.15	1.15
Caddo 32 to 34.9 gravity	1.10	1.10
Caddo 32 gravity and below	.75	.85
Homer 35 gravity and above	1.25	1.25
Homer 31 to 32.9 gravity	1.10	...
Homer 33 to 34.9 gravity	1.15	...
Homer 31 gravity and below	.75	...
Haynesville:		
33 gravity and above	1.10	1.10
32.9 gravity and below	1.00	1.00
Bull Bayou:		
38 gravity and above	1.15	1.00
35 to 37.9 gravity	1.05	...
32 to 34.9 gravity	1.00	...
De Soto Crude	1.25	1.25
Crichton crude	1.00	1.00
Bellevue (Bossier Parish)	.75	...
Jennings crude	1.25	.80
Vinton	1.25	.80
Edgerly crude	1.25	.80
EASTERN STATES		
Cabel	$1.86	$1.61
Pennsylvania	3.00	2.75
Ragland	1.00	.85
Corning	1.75	1.65
North Lima	1.98	1 83
South Lima	1.98	1.83
Wooster (9-21-22)	1.90	2.05
Somerset, heavy	1.71	1.40
Somerset, light	1.96	1.65
Illinois	1.77	1.52
Indiana	1.78	1.63
Plymouth	1.15	.65
Princeton	1.77	1.52
Waterloo	1.25	1.00
WYOMING		
Elk Basin	1.20	1.40
Grass Creek	1.20	1.40
Rock Creek	.80	1.00
Lance Creek	1.20	1.35
Mule Creek	.60	.95
Bug Muddy	.70	.90
Salt Creek	.70	...
Osage	1.20	...
Cat Creek (Montana)	1.20	...
Landers	.37½	...

CALIFORNIA

(Crude oil prices at the well)

San Joaquin Valley and Whittier-Fullerton fields		
14 to 19.9 gravity	.60	1.10
20 to 20.9 gravity	.63	1.16
21 to 21.9 gravity	.67	1.20
22 to 23.9 gravity	.73	1.25
23 to 23.9 gravity	.80	1.31
24 to 24.9 gravity	.88	1.38
25 to 25.9 gravity	.96	1.46
26 to 26.9 gravity	1.05	1.55
and for each increase in gravity of one full degree above 26, up to and inclusive of 34.9 gravity, ten cents a barrel additional.		
35 gravity and above	1.85	2.45
CANADIAN CRUDE		
*Petrolia	2.38	1.98
*Oil Springs	2.45	...

*Plus 52½ cents bounty.

ARKANSAS		
El Dorado:		
33 gravity and above	1.25	1.25
Below 33 gravity	1.00	1.15
Smackover (9-27-22)	.75	.75
OKLAHOMA		
Healdton, Walters, Beaver	.75	.80
Cement	.85	.95
All other fields	1.25	1 50
38 gravity and above (Gulf only)	1.50	...
KANSAS		
All fields	1.25	1.00
KENTUCKY		
Western (Indiana Def. Co.)	1.65	1.00
TEXAS		
N. Texas (except Corsicana)	1.50	1.50
Corsicana, light	1.00	1.05
Corsicana, heavy	.65	.70
Mexia	1.25	...
Currie (40 grav. and better)	1.50	...
Mirando (10-1-22)	.80	...
Gulf Coast (ex. Pierce Junction, Blue Ridge and Hull)	1.25	.80
Nacogdoches	3.20	...
Pierce Junction, Grade A	1.25	...
Pierce Junction, Grade B	.80	...
Hull, Grade A	1.25	...
Hull, Grade B	.80	...
Blue Ridge	.80	..

Amerada Gets 21-cent Premium for 25,000 Barrels a Month of Orange Oil

HOUSTON, TEX., Oct. 18.—Premiums for Gulf Coast crude are not "mythological anticipations," despite the fact that Gulf Coast crude is selling at a posted price equal to that of Mid-Continent crude. A deal was consummated last week whereby the Amerada Petroleum Corporation sold 25,000 barrels of Orange crude a month to the Trans-Atlantic Petroleum Corporation of Houston at a price, at the wells, of $1.46 which is the posted price plus a 21-cent premium. The contract provides that a premium of 21 cents shall be paid over the posted price for a period of six months.

A number of other operators are receiving premiums for Gulf Coast crude, the premiums in most instances amounting to 20 to 25 cents per barrel. Instances have been reported, but not confirmed by The OIL WEEKLY, of even higher premiums.

The crude market in the Gulf Coast district has been strong for several months, due to the falling off of production in the Toteco pool in Mexico.

The Trans-Atlantic will move the oil to its refinery in Houston.

The market for lubricating oils made from Gulf Coast crudes continues very active with the prices strong and advancing. Shipping instructions are coming through for a large quantity of oils contracted some time ago, and refinery stocks are approaching depletion.

The export situation is also promising, the volume of inquiries from that source being large. A boat is expected in the Houston Ship Channel during the next week to lift a full cargo for Continental Europe, to load from the Deepwater Refineries dock.

The price of fuel oil is reported a shade lower, the price range now being given at $1.40 to $1.50 at refinery, but there is no surplus of that commodity.

Prices for the mid-week, fob refinery, were approximately as follows:

Color	Viscosity @ 100° F.		Price per gal. High	Low
—2	70	Pale Oil	7	6.5
2	100	Pale Oil	8	6
2½	150	Pale Oil	12	9
3	200	Pale Oil	14	13
3½	300	Pale Oil	18	17
4	750	Pale Oil	30	28
5	200	Red Oil	12	10.5
5	300	Red Oil	16	14
6	500	Red Oil	18	16
Zero		Black	6	5
Gas Oil			5	4
Fuel Oil (barrel)			$1.40	$1.50

Asks Bids for Salt Creek Royalty Oil

Washington, D. C., Oct. 17.—The Secretary of the Interior has asked for bids for government royalty oil from the Salt Creek and Cat Creek fields of Wyoming. The bids must be submitted before noon November 15. At present government royalty from Salt Creek wells is around 8,200 barrels daily and 500 barrels from Cat Creek.

Bids for the Cat Creek share must be for the whole of the government share, although two bidders may submit a joint proposal. Bids for Salt Creek must be for fixed amounts of not less than 2000 barrels daily. Bids are to be based on the posted price of Mid-Continent crude, offered or paid for major portion of oil produced of same quality as that from the Wyoming fields.

Ponca City, Okla., Oct. 18.—In the general study of evaporation losses of crude oil and refined products, being made by Ludwig Schmidt, junior chemical engineer, of the United States Bureau of Mines, an elaborate series of tests has been made at a Ponca City, Oklahoma, plant, to determine the relative rates of evaporation of gasoline when stored in ordinary tanks and tanks fitted with water-sealed roofs.

Tests were also made to determine the amount of gasoline that was lost in filling a tank car with straight-run gasoline of 56 to 58 degrees gravity. Temperature measurements are being made to determine the temperature of oil in three different types of tank—one of the ordinary 55,000 barrel tank type, one an 80,000 barrel insulated tank, and one a 55,000 barrel insulated tank on which a water spray is used.

Market Quotations

(Tank car lots, f. o. b. Group Three, Oklahoma, or freight rate adjusted)

Gasoline and Naphtha

48-50 450 end point Naphtha	10	10¼
50-52 450 end point Naphtha	10¼	10½
56-58 450 end point	11	11¼
56-58 437 end point (New Navy) i. b. p. 140	11¼	11½
58-60 437 end point (New Navy) i. b. p. 140	12	12¾
60-62 400 end point	15	15¾
64-66 370-375 end point (export specification)	16¾	17
68-70 350-360 end point	18¾	19

Natural Gasoline

Grade A 72-76, under 375 end point, rec. 90%	15	15¼
Grade B 76-80, 375 end point, rec. 88%	15	15¼
Grade C 80-84, 375 end point, rec. 85%	14	14½
Grade D 80-84, 330 end point, rec 80%	14	14¼
Grade E 84-87, 330 end point	14	
Grade 1 60-62, 450 end point, (motor blend)	11	11½
Grade 2 62-66, 450 end point, (motor blend)	11	11½
Grade 3 66-70, 450 end point, (motor blend)	11¼	11½

Neutral Oils

70 Vis. @ 100, No. 2	4¼	4½
70 Vis. @ 100, Nos. 2½-3	4	4¼
100 Vis. @ 100, No. 2	5	5½
100 Vis. @ 100, No. 3	4¾	5
150 Vis. @ 100, No. 4	8	8¼
200 Vis. @ 100, No. 3	11	11½
200 Vis. @ 100, No. 4	10¼	10½
200 Vis. @ 100, No. 5	9¾	10
240 Vis. @ 100, Nos. 5 and 6	11¼	11¾
280 Vis. @ 100, No. 6	13	13¼
300 Vis. @ 100, No. 6	14¼	14¾

Cylinder Oils

600 Bright Filtered	27	30
600 Light Filtered	16	16½
600 Steam Refined, Olive Green	6	6½
600 Steam Refined, Dark Green	5	5½

Burning Oils

41-43 Kerosene A. T.	4⅞	5
42-43 Kerosene A. T.	5	5¼
38-40 Lt. Straw Distillate	3½	3¾
45-47 W. W. Distillate	8	8¼
46-48 W. W. Distillate, 500 e. p.	9	9¼

Wax

124-126 White Crude Scale (pound)	2¼	2⅜

Fuel Oils

32-36 Gas Oil	2⅞	3
24-26 Fuel Oil (bbl.)	$1.05	$1.07½
Buyer's cars	.95	1.00

Road Oils (Based on Group 3)

50-60 Asphaltic content	$1.20	$1.25
60-70 Asphaltic content	1.25	1.30

NORTH TEXAS

A fair range of prices on refined petroleum products in the North Texas district, f.o.b. shipping point in tank car lots, follows:

Gasoline, SR, 56-58, 450 e.p.	11	11½
Gasoline, SR, 58-60, 437 e.p.	12	12½
Gasoline, SR, 60-62, 400 e.p.	14½	15
Gasoline, SR, 64-66, 390 e.p.	16¼	16½
Naphtha, 50-52, 450 e.p.	9	10
Natural Gasoline		
(Casinghead), 80-88	13½	14
(Absorption), 70-74	14½	15
Kerosene, WW, 41-43	5	5¼
Distillates, 36-38	2¾	3
Gas Oil, dark or straw, 32-36	2½	2¾
Fuel Oil (Wichita Falls)	.90	1.00
Fuel Oil (Fort Worth)	1.10	1.15

HISTORY REPEATS ITSELF

E. L. DeGoyler, vice president of the Amerada Petroleum Corporation, tells the following:

Back in the early Pennsylvanian days when oil was selling at 10 cents a barrel, and only selling when the well was near a railroad, an operator went out about 40 miles from a railroad and drilled in a 150-barrel wildcat well.

His No. 2 was nearing the sand and the operator decided that he would go to the city for a rest—he couldn't sell his oil anyway, and there was nothing for him to do but rest.

The day after he got to town he received the following message from his driller:

"No. 2 is in making 500 barrels. No. 1 has increased to 300 barrels a day. All running on the ground. Rush timbers for No. 3."

MOUNTAIN STATES
WYOMING, MONTANA, COLORADO

Completions for Week Are Not Outstanding

Casper, Wyo., Oct. 14.—No completions have been recorded by the Western States Oil and Land Company during the past week although one well should be showing production within the next few days. This is No. 6 in the Soap Creek field which has been producing from the first sand for the past six months. This hole is being drilled deeper with the expectation of larger production in the deeper sand.

The Inland Oil and Refining Company is drilling in its Shoup No. 2 on the SW¼ of section 29-40-78, Salt Creek. The bit is 90 feet in the sand at 2631 feet and the output for the last 24 hours was 483 barrels. With the flow increasing as the bit penetrates the sand it is figured that this well will output at the rate of approximately 500 barrels when completed.

Word comes from Montana that a quarter section of land in the Kevin-Sunburst field, described as the S½ of section 21 and the W½ of section 28-36-2, has been purchased by the California Company at a price of $40,000. This tract is near the pioneer well at Sunburst.

Producers and Refiners Corporation has completed its No. 1 on section 18-40-78, Salt Creek, at 1810 feet. Test has not been completed but it is estimated as a 200 barrel producer.

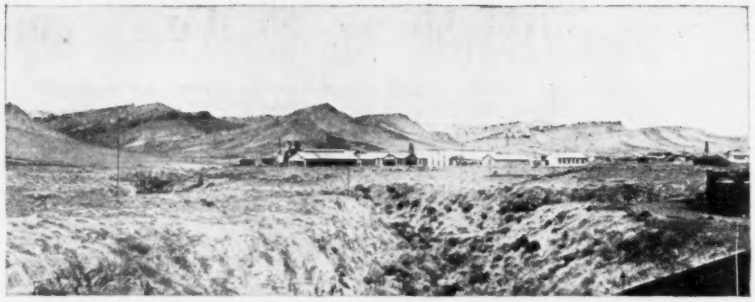
No. 13 on section 25-26-87 in the Ferris-field also has been completed and is showing for 25 barrels from a depth of 1800 feet. Owing to the lack of storage facilities this well is capped until the output can be handled.

The Ohio Oil Company reports three completions, during the week, and only one of the trio productive. No. 1 Maley on section 31-35-2w in the Sunburst field was a duster and is being abandoned at 1845 feet. No. 2 Belleview OPC on section 33-90-79, located on the outer west edge and about midway north and south on the Salt Creek structure, was shot at 3131 feet and is a water hole.

PLACE VALUE OF PIPE LINE TO CAT CREEK

Helena, Mont., Oct. 13.—The state board of equalization today placed a valuation of $233,343 on the pipe line of the Mutual which carries crude from the Cat Creek field to Winnett. This total includes the value placed on buildings and property other than the pipe line itself, and represents the valuation placed by local assessors of Fergus and Garfield Counties.

The valuation of properties of the Callatin Natural Gas Company, which furnishes natural gas to Billings and other points was placed at $350,795, which includes local assessments of $6500 made by Yellowstone and Carbon Counties.



Midwest Refining Company gas plant at Elk Basin, Wyoming

Two New Pipe Lines Ready to Run Oil From Salt Creek

CASPER, October 14.—Pipeline runs from the Salt Creek field to Casper should be augmented shortly by thousands of barrels daily as the result of the completion of two new carriers, one owned and operated by the Western Pipe Line Company, which has its terminus and loading racks west of Casper, and the other by the Central Pipe Line Company, which connects with the Texas Company's refinery east of Casper and with loading racks owned by the Independent Oil Purchasing Company. Both lines are under test and oil should be delivered at Casper the last of the week. Oil is being pumped into the Central Line at Salt Creek, and was expected in Casper today when steady deliveries are to be made.

The Western Pipeline Company is the first to announce a schedule of rates for a common carrier line from Salt Creek field. Announcement is made of the approval of these rates by the Wyoming Public Service Commission, the charges being as follows: Tarriff of 30 cents a barrell for transporting of oil to Casper; 2½ cents a barrel for loading into tank at Casper; free storage at Casper for 24 hours and storage charge of one-fifth cent per barrel per day for nine days thereafter.

The Western Pipeline Company's new carrier is 44½ miles long, of which 30 miles is 8 inch pipe and 14½ miles is double 6-inch pipe, making a total of 59 miles of pipe.

Number of Mammoth Shares Offered to Public in New York

NEW YORK, N. Y., Oct. 14.—The public offering of a limited number of shares of non-voting stock of the Mammoth Oil Company this week at a time when important strikes were made on the Teapot Dome naval reservation in Wyoming, has revived interest in the affairs of the concern which was formed in the early part of this year. The shares were soon taken. The Mammoth Oil Company was originally capitalized for 1,000,000 shares of no par value, but later was increased to 2,000,000 shares of non-voting, Class A stock, and 5000 shares of voting, Class B stock.

The Mammoth stock has been listed and opened to trading on the New York Curb Market the first of this week at $43 and later sold off to $40. It is now quoted at $40 bid, $40.25 asked.

The amount of the initial stock offering and the underwriting price has not been made public. An announcement over the name of Jesse L. Livermore conveys the information that the Mammoth Oil Company is controlled by the Sinclair Consolidated Oil Corporation and that it has leased from the United States government some 9321 acres of land on naval reserve No. 3 in Wyoming, on which is being drilled 20 wells, 9 of which have drilled through oil bearing sand. Further information is that a pipe line is to be built from the Wyoming field, probably by the Sinclair Pipe Line Company, jointly owned by Sinclair Consolidated and Standard of Indiana, and that steel storage now is being constructed which will provide tankage for 1,600,000 barrels of oil.

Control of Mammoth Oil Company is understood to be vested in Sinclair Consolidated and Standard Oil with the former company having 51 per cent interest and the Indiana company a 49 per cent interest. It is noteworthy that W. C. Teagle, president of the Standard Oil Company (New Jersey), Harry Payne Whitney, Harry Sinclair and other officials are in Wyoming at this time. It has been pointed out, however, that the presence of these men in Wyoming is not so significant as ever since the first news of the strike oil men from all sections of the country have visited the Teapot Dome territory.

First Oil in Montana Found in 1919

Production in commercial quantity really dates from February, 1920

CASPER, WYO., Oct. 14.—Oil development in Montana really had its inception in the strike of the Van Duzen Oil Company in the Devil's Basin territory in the latter part of 1919 when a well was completed to the quadrant sand. For a short time the well flowed, but on being drilled deeper water encroached. The first real discovery of oil in commercial quantity was in February of the following year by the Frantz Corporation in 20-15n-30e near the Mussellshell River. An interesting resume of the Montana development is given by M. O. Danford in the current number of The Midwest Review, published by the Midwest Refining Company for its employes, which is as follows:

Several Abandoned.

"A number of years ago several wells were drilled at different locations in Montana and subsequently abandoned on account of the failure to procure commercial production. These wells numbered from ten to twelve and were located at widely different points in the state.

"In November of 1919 the Van Duzen Oil Company completed a well to the quadrant sand in the Devil's Basin territory, some fifteen miles north of Roundup. The well flowed for a short time but upon subsequent deeper drilling water replaced the oil. Other operations started immediately in the Devil's Basin field and several wells were drilled to the producing horizon, some of which furnish production in commercial quantities, but the character of the oil being low in gravity and gasoline content, has not as yet justified pipe line connection to the Devil's Basin field. However, activities still continue with the hopes of developing larger producing wells and enlarging the area justifying pipe line connection to the railroad. To date the principal amount of oil produced has been consumed as fuel oil.

"The first real discovery of oil in commercial quantity was made in February of 1920 by the Frantz Corporation drilling a well in Section Twenty (20), Township Fifteen (15) North, Range Thirty (30) East, near the Musselshell River. The principal part of the acreage upon this structure was controlled by the Frantz Corporation, and subsequently disposed of to different interests.

"This particular discovery well proved, upon deeper drilling, not to be productive to any great extent but more recently several wells have been drilled in that vicinity which have proved commercial.

"Shortly after the drilling in of this well the Frantz Corporation finished a well in the Northeast quarter (NE¼) of Section Fourteen (14), Township Fifteen (15) North, Range Twenty-nine (29) East, which showed commercial production of extremely high gravity oil. Upon encountering the sand the hole rapidly filled with oil and operation ceased at that point. Later, in August, of 1920, the control of the Frantz Corporation was taken over by the Elk Basin Consolidated Company and the well drilled itself in by pressure and commenced flowing oil at the rate of approximately 1800 barrels per day.

2100 Barrels.

"In the meantime the Mid-Northern Oil Company had taken over the interests of the Midwest Refining Company in Montana and was drilling an offset well to the Frantz' discovery well in Section Fourteen (14), which upon completion flowed approximately 2100 barrels per day. These two discoveries immediately started activities in the Cat Creek field and since that time there are seventy-six (76) producing wells in Cat Creek, producing approximately, since January 1st, 1922, 140,000 barrels per month. A pipe line was constructed from the field to Winnett, stationed on the Milwaukee Railroad, and the oil is transported to that point where it is loaded in railroad tank cars and distributed to the various refineries in Wyoming and Montana. On account of the high grade character of the oil and the amount of production Cat Creek so far is the most important field that has been discovered in Montana.

"The second discovery of oil in commercial quantities was made by the Western State Oil and Land Company on the Soap Creek Structure of the Big Horn Indian Reservation, in the south central part of Montana. In February of 1921 the above named company drilled in their well number one, which upon initial flow showed some 600 barrels per day. This is extremely low grade oil, the largest part of which will have to be converted into fuel uses and on this account no pipe line connection has as yet been made to Soap Creek.

Soap Creek Production.

"The Western States has completed six additional producing wells and the daily average production from Soap Creek could now be marketed were transportation facilities afforded approximately 2000 to 2500 barrels per day.

"So far Montana has produced the highest grade of light oil and also the lowest grade of black oil, heretofore found in the Rocky Mountain section.

"In March of 1922 Gordon Campbell drilled in a well in the Sweetgrass Arch, in the northern part of the state, developing a new field that had not, heretofore, been considered of great interest to the oil industry on account of the lack of geological information. This discovery occasioned the usual oil field rush for leases and operations and at the present time there are some eighteen or twenty rigs actually engaged in drilling to the sand.

"In the early part of June of this year, the Sunbrust Oil and Gas Company, some eight or nine miles east of the Campbell well, drilled in a commercial well at the depth of 1550 feet. Optimists in the oil industry feel sure of a large producing area in the Sweetgrass Arch and the drilling activities now being carried on will no doubt prove or disprove the theory advanced. Suffice it to say that commercial production has been procured in at least two points on the arch and future development will tell the tale.

Sweetgrass Arch.

"The presence of oil in the Sweetgrass Arch has led to considerable activity in the northern part of the state and no doubt many wells will be drilled in the vicinity this summer.

"Numerous wild cat ventures have been started and completed in Montana disproving certain structures and at the present time there are some fifty or sixty wild cat wells in different stages of operation.

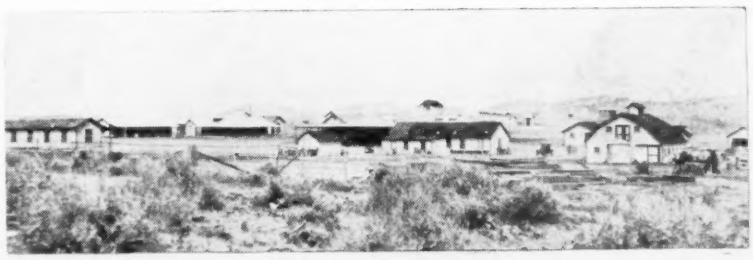
"The severe winter of 1921 and 1922 handicapped field operations greatly and obliged the closing down of most of the wild cat ventures. The late spring and road conditions have prevented many of them from starting up until this time.

"The three producing fields in Montana at the present time are Cat Creek, Soap Creek and Sweetgrass Arch.

"Several local refineries have been financed and constructed in the state. One at Winnett, two at Lewistown, one at Billings, one at Miles City and one now under construction at Great Falls. These refineries are limited in capacity and supply, local markets largely."

New York, N. Y., Oct. 16.—Directors of the Union Tank Car Company have declared the regular quarterly dividends of $1.25 a share on its preferred and common stock, payable December 1 to stockholders of record November 6.

Tulsa, Okla., Oct. 18.—An office in the Mid-Continent field has been opened here by the Chicago Pneumatic Tool Company. The company's business in the Southwest will be handled through the Tulsa office.



View of a Midwest Refining Company Camp at Grass Creek, Wyoming

OKLAHOMA PRODUCTION

Tulsa, Okla., Oct. 17.—Production in Oklahoma fields was divided as follows last week:

Field—	Barrels
Burbank	83,500
Other Osage	34,900
Creek county	62,300
Cushing	28,300
Hewitt	28,150
Okfuskee	22,000
Okmulgee District	20,500
Healdton	19,000
Duncan and Walters	16,600
Tonkawa	17,500
Other fields	95,450
Total	428,200
Last week	424,500

OKLAHOMA OLD FIELDS COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Creek County—		
Black Pet. Co.'s Bruner 2 SWc SE SW 1-14-10	*	3175
J. R. Bond's Cateter 3, SEc NW SW 9-15-9	25	2550
Bradstreet Oil Co.'s Bearhead 1, SEc 10-14-8	10	2490
Cosden Oil & Gas Co.'s Colaw 3, NEc SW 26-16-9	500	2985
Galvez Oil Co.'s Chapman 1, NEc NW SE SE 3-15-8	*	3175
Gypsy Oil Co.'s:		
Clanton 1, NWc NE 4-15-9	1000	2933
Bear 2, NEc SW 3-14-8	50	2565
Wadsworth 2, C SE SW SE 15-14-9	*	2190
Warner 2, SWc NW SE NE 24-16-9	*	3010
Jomack Oil Co.'s:		
Fields 1, SWc SE SW 10-16-9	*	3010
Williams 3, NEc SE NE 21-16-9	25	2928
Kawfield Oil Co.'s Edwards 1, SWc NE SW 14-16-9	*	3505
Edwards 2, NWc NE SW	200	3000
Margay Oil Co.'s Vaughn 5, C S L N½ SE SW	350	2930
McMahon & Porter's Bear 1, NEc SE SE 9-15-8	*	2160
Waite Phillips' Vaughn 3, SEc SW SW 33-16-9	650	2928
Mico 2, NWc SW 23-16-9	*	3160
Pure Oil Co.'s Sulphur 4, SEc NW NW 22-14-8	200	2290
Roland Oil Co.'s:		
Meyers 2, SWc NE SE 3-15-8	*	2150
Meyers 8, NEc SW 3-15-8	*	3135
Srip 1, NWc 14-16-9	10	2980
Skelly Oil Co.'s Harjo 5, C SE NW NW 22-14-9	*	3200
Texas Co.'s:		
Hawkins 1, NWc NE NW 4-15-9	2150	2920
Harjo 2, SEc 8-17-12	*	2600
Transcontinental Oil Co.'s Mico 6, SWc 23-16-9	25	2935
Twin States Oil Co.:		
Orcutt 10, NEc SE 22-16-9	125	2995
Orcutt 13, SEc NW SE 22-16-9	100	2975
White Oil Corp.'s Bear 2, SEc NE SE 2-15-8	*	2980
Wilcox & Oswalt's Warner 1, C NW NE SW 24-16-9	*	2960
West et al's Tiger 1, NEc SE NW 12-18-12	¶5	2915
Payne County—		
Magnolia Pet. Co.'s:		
Gaunt 5, NWc SW NW 21-18-5	*	3970
Main 8, SEc NE NW 34-19-4	*	3875
Shaffer & Marland's School Lands 1, C NE SE 36-18-3	*	3050
Woods et al's Knight 3, NEc NW NE 34-19-4	25	3868
Tulsa County—		
Dominion Oil Co.'s unalotted 1, SWc NE NE 35-19-12	*	1600
Indiahoma Oil Co.'s Cane 1, C NW NE 17-16-14	¶5	1520
McCullough et al's Blackstone et al NEc SW 17-16-14	*	2415
Atlas Oil Co.'s Rowe 1, NEc NW 28-16-14	25	2135
Garfield County—		
Crews Heirs Oil Co. Crews 8, C SW SW SE 19-22-3w	*	1968
Imo Oil Co. Heim 6, SEc NE NW NW 36-22-4w	125	2177
Sinclair Oil & Gas Co. Campbell 9, C NW NE NW 30-22-3w	330	2120
Metcher 9, C SE NE NE 36-22-4w	100	1330

Much New Work in Oklahoma With Small Jump in Production

TULSA, OKLA., Oct. 17.—Despite effects of the shut down at Burbank, activity in all departments of Oklahoma oil fields showed to better figures than for the preceding week. The jump in production was due in part to the recent completions at Burbank, prior to the governmental order. Other sections came through this week to overcome what was lost at Burbank.

New rigs outnumbered the total for the previous week, 99 to 75. This week saw 113 wells completed against 90 for its predecessor. Producers reached 63, against 48. Initial production was 20,920 barrels, with the previous week's total 19,155.

Creek County and the Tonkawa pool now threaten to carry the peak load, while Burbank is forced to the background, at least temporarily, by orders from Washington.

The outstanding event of Creek County for the week was the well completed by The Texas Company on the Hawkins farm in the northwest corner of the northeast of the northwest quarter of section 4-15-9 for 1700 barrels at 3150 feet. The well is now doing 1300 barrels. While the well is an extension of but 500 feet to the pool east of Bristow, it is the best well yet completed in that part of the pool and holds promise that the pool grows better to the south.

When drilled a foot deeper to 3236 feet, the Hiram C. Wilson Syndicate well on the Robertson farm, in the southeast corner of the north half of the northeast of section 8-15-8, increased its flow to 300 barrels daily. This well was completed Sept. 26 for 2000 barrels initial production. The tools are still in the hole in readines for further drilling.

There are 10 rigs being built around the Wilson well, which was classed as a wildcat.

Tonkawa continues to climb steadily in production. The daily output is now close to 20,000 barrels, although the average for the past week was only 17,500 barrels daily. The field has 46 producing wells, giving it a well average in excess of 400 barrels.

In addition to the nine new rigs credited to Noble County this week, all in the Tonkawa pool, the following locations have been made there: Gypsy Oil Company in the southwest corner of the northwest of section 2; Blackwell Oil and Gas Company in the southeast of the northeast of section 3; Slick et al in the southwest of the southwest of section 35; Marland Refining Company in the southwest of the southwest of section 25; Alcorn Oil Company in the southwest of the southeast of section 35. All are in township 24, range 1 west.

While evidence of the Washington order are evident from the week's report at Burbank, that pool came through with a fair list of wells, none in the class of those completed to the north side of the pool just previous to Oct. 5.

The Marland Refining Company in deepening an old well, No. 7 Min-Kah-She, in he center of the west line of the southeast of 13-22-8, got a well good for 1200 barrels initial. This well was completed some months back for 500 barrels at 2593 feet. It was drilled 40 feet deeper.

Other sections of Oklahoma contributed nothing of consequence during the week.

OIL MAN THINKS U. S. BEST PLACE IN WORLD

Tulsa, Okla., Oct. 14.—After completing a tour of European countries which carried him through England, France, Germany, Italy, Switzerland and Spain, C. B. Peters has returned to the United States and to Tulsa firm in the belief that America is the best place to live in after all and that economic conditions in Europe, while bad, are not as deplorable as has been pictured. Mr. Peters is president of the Tulsa chamber of commerce, directing head of the Peters Oil Company and an executive of the Middle States Oil Corporation.

The depreciation of the German mark is really helping that country, according to Peters, who said that people of other nations are buying marks as an investment, whereas the low rate of exchange has worked to the advantage of the laboring class in Germany. There is little advantage in Germany today and the people all seem industrious.

On the return voyage to the United States, Peters was joined by J. H. Markham, Jr. of Tulsa, well known Mid-Continent oil operator.

L. T. Andrews of Farish, Watts and Collins, drilling contractors, of Houston, Texas, made a trip to the Smackover field during the past week.

SOUTH OKLAHOMA COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Caddo County—		
Lone Star Gas Co.'s Lackey 3, SEc NW 11-5n-9w	40	2370
Magnolia Pet. Co.'s:		
Farrell 1 NWc SE 26-5n-8w	¶40	1350
Estes 2, SEc SW NE 10-5n-9w	10	2430
Carter County—		
Amerada Pet. Corp. Baptiste 9, SWc NE NE SE 20-5s-1e	30	1560
Cotton Belt Pet. Co.'s Rexroat 8-A, SWc NW NW 15-4s-2w	*	2010
Gypsy Oil Co.:		
Tubbie 1, NEc NW NE 35-4s-2w	400	3935
McClure 2, SWc SE SE 28-2s-3w	¶24	2255
Magnolia Pet. Co.		
Hefner 6, C NE SW NE 27-2s-3w	¶18	2500
Woodruff 20, C SE SW SW 15-4s-2w	40	2310
Skelly Oil Co.:		
Stecki 4, NEc SW NE SW 15-4s-3w	140	2065
Carney 8, C NW NE SW 15-4s-3w	75	2965
Carney 13-B. NEc SW SE NW 15-4s-3w	50	2405
C. R. Smith fee 4, C SW NW SW 27-2s-3w	60	2230
Garvin County—		
Homa Okla Oil Co.'s Harvey 2 NWc SW NW SW 11-1n-3w	*	1855
Judson Oil Co.'s Newberry 2, NEc NW NW SE 13-1n-3w	300	1640
Sinclair O. & G. Co.'s Rose 1, SEc NE 10-1n-3w	*	2000
Texas Co.'s Selby 1-A, SWc NW NW SW 11-1n-3w	*	1575
Stephens County—		
Caldwell & Enlow's Enlow 1, NWc NE 31-2s-7w	*	1140
Carter Oil Co.'s Glass 1, SWc NE SE 33 1s-8w	*	1798
Magnolia Pet. Co.'s Ferris 2, SWc NW SE 23-2s-6w	70	1730
Kargay 12, SWc NE NE SE 34-1s-8w	50	2210

NORTH OKLAHOMA COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Osage County—		
Carter Oil Co. 12, C SE SW NE 8-26-6	225	2868
Cosden O. & G. Co. 3, SWc NE SE NE 6-26-6	225	2955
3, C NE SE NE 17-26-6	125	2930
10, NWc SW 8-26-6	125	2880
W. J. Fletcher 1, C W L S½ SW 6-22-10	25	2010
Friedman et al 7, SWc SE 6-26-6	300	2880
Gypsy Oil Co. 4, SWc SE 24-27-5	650	2995
10, C NE SW NW 29-27-6	600	2980
Kewanee O. & G. Co. 2, NEc SE 7-26-6	125	2853
Oklahoma Nat. Gas Co. 611, C E L E½ NE 28-20-12	¶13	1625
Owen Osage Oil Co. 217, C W L W SW 26-28-12	¶1¼	750
Waite Phillips 1, SEc 35-27-6	500	2980
Phillips & Skelly 2, S SE SW SW 19-27-6	500	2905
4, SEc SW 24-27-5	750	3000
6, SWc NW NW 25-27-5	125	3050
Price Oil Co. 1, NWc 20-21-11	*	2465
Sinclair O. & G. Co. 13, C SE NW NW 33-27-6	400	2975
14, NEc NW SW 36-27-5	450	2975
16, C NW NE NE 32-27-6	975	2930
14, C NE NW SW 36-27-5	450	2975
Pawnee County—		
R. E. Freeman Armstrong 1, SWc NE NW 17-21-7	25	2640
Josey Oil Co. Scott 1, SWc NW NW 22-20-6	¶8½	2785
Wooster Drilling Co. Terlton 1, SWc NW SW SE 19-20-8	100	2490
Noble County—		
Amerada Pet. Corp. Smith 3, C NE NW NE 15-24-1w	50	2140
Comar Oil Co. Blubaugh 3, C NE SW 2-24-1w	¶1½	830
See 12, C SW NW SW 15-24-1w	50	2010
Cosden & McFarland school land 1, C SE NE SE 16-24-1w	50	2010
Gypsy Oil Co. Evans 2, C SW SW NE 10-24-1w	1000	2640
Southwestern Pet. Co. Murray 13, SWc SE SW 10-24-1w	1700	2630
Murray 19, C S L N½ SW 10-24-1w	1400	2637
White Eagle O. & R. Co. Novotney 3. NWc SW SE 10-24-1w	950	2628

THE WEEK IN OKLAHOMA TOLD BY TABULATION

County—	New Rigs	Rigs Abn.	Completions	Producers	Gas Wells	Failures	Initial Prod. in bbls.
Creek	20	5	30	15	1	14	5,420
Garfield	4	..	4	3	..	1	555
Payne		..	4	1	..	3	25
Tulsa	1	..	4	1	1	2	25
Kay	1	..	..	..	..	..	.....
Noble	9	..	8	7	1	..	5,200
Osage	23	..	20	18	1	1	7,275
McIntosh	1	..	4	..	2	2	.....
Muskogee	2	..	2	..	1	1	.....
Okfuskee	9	..	4	2	2	..	1,200
Okmulgee	6	..	10	4	2	4	155
Caddo	5	..	3	2	1	..	50
Carter	6	..	10	7	2	1	795
Garvin	6	1	4	1	..	3	300
Stephens	2	..	4	2	..	2	120
Custer	1	..	..	..	..	..	.....
Hughes	1	..	..	..	..	..	.....
Murray		..	1	..	..	1	.....
Oklahoma	1	..	..	..	..	..	.....
Pontotoc	1	..	1	..	1	..	.....
Seminole		1	..	..	..	..	.....
Totals	99	7	113	63	15	35	20,920
Last Week	75	5	90	48	10	32	19,155

OKMULGEE DISTRICT COMPLETIONS.

Company, Well, Location	Initial Production bbls.	Depth
McIntosh County—		
Bandy et al Broadnox 1 C SE SW 16-12-14	¶1½	740
Ludemon et al Barnwell 1 NWc SE 13-12-14	*	2095
Wooster et al Grayson 1 SWc NE NE NE 19-11-14	*	1485
McIntosh 1 NWc SW NW 20-11-14	¶½	780
Muskogee County—		
J. W. Hale Mode 1 SEc NE NW 22-14-19	*	835
O. A. Lambert Rich 2 C E L NE SW 8-13-15	¶½	905
Okfuskee County—		
Waite Phillips Foster 2 NWc SW 1-10-9	200	3085
Foster Oil Co. Pigeon 2 NWc NE SE 2-10-9	1000	3060
Skelly & Cosden Miller 1 SEc NE NE 2-10-9	¶35	3030
Turman et al Brooks 3 NWc NE NE 11-10-9	*	965
Okmulgee County—		
Barbara Oil Co. Wolf 1, SWc SE NW 34-13-12	*	2793
Fee Oil Co. Crosby 1, NWc NE 35-15-12	¶1½	1600
Indiahoma Ref. Co. fee 3, SEc NE 22-15-11	*	2850
Kewanee Oil Co. Bright 6, SEc NW SW 22-14-14	40	1785
D. C. Lampton Harrison 2, C E L NE SE 18-15-14	*	1880
Lowry et al Nelson 5, NEc SE SE 21-13-14	40	2075
W. B. Pine Cousins 1, SEc NE SE 21-15-11	*	2840
W. B. Pine Calloway 1, NEc NW SE 3-11-12	50	2665
Sheldon et al McKee 2, SWc SE 8-13-12	¶5	2798
Wedall Dev. Co. Morton 1, NEc SW NW 8-13-12	25	2175

Hope to Increase Pumping Efficiency

Bartlesville, Okla., Oct. 17.—Data on the use of various types of pumps in different oil fields obtained by R. R. Templeton, Petroleum Engineer of the Bureau of Mines in a general investigation of the efficiency of underground pumping equipment, indicate that equipment which operates efficiently in one field may be very inefficient in another.

By determining the conditions under which certain pumping equipment operates most efficiently and by careful selection of pumping equipment to meet those conditions, the results of Mr. Templeton's investigation should make possible more efficient recovery.

KANSAS PRODUCTION.

Independence, Kansas, Oct. 17.—The daily production of Kansas fields for the week was as follows:

Field—	Barrels
El Dorado	19,200
Elbing and Peabody	14,500
Fox Bush	12,275
Florence	9,000
Greenwood County	9,375
Blankenship and East Butler	5,625
Augusta	4,725
Leon and Weaver	3,000
Other fields	12,725
Total	90,425
Last week	89,190

KANSAS COMPLETIONS.

Company, well, location	Initial Production bbls.	depth
Butler County—		
O. A. Boyle Runnell 2 SEc SW 26-28-5	10	2830
Dickinson et al Haver 3 SWc 30-29-6	75	2745
Phillips Pet. Co. Davis 1 NEc 12-24-4	950	2463
Prairie Oil & Gas Co. McCranier 1 C SE NE NW 1-25-3	*	2705
Elk County—		
Southwestern Gas Co. Kirby 1 SWc NE 34-29-10	*	2050
Greenwood County—		
Skelly Oil Co. Pedroja 1 NWc SW 6-22-12	25	1855
Smith & Bibson town lot 6 NEc 24-25-10e	*	2210
Marion County—		
Watchron O & G Co. Townsend 23 SEc NE SE 5-22-4	100	2480

OKLAHOMA CHARTERS NEW OIL COMPANIES

Oklahoma City, Okla., Oct. 17.—Charters recently have been granted the following oil companies in this state:

The Modesitt Oil Company of Okmulgee, capital $150,000; incorporators R. G. Rapp of Okmulgee; Oliver T. McIntosh and Carl L. Modesitt of Denver, Colo.

The Nagle Oil Corporation of Muskogee, capital stock $25,000; incorporators E. R. Nable, D. R. Bates and E. J. Hermes, all of Muskogee.

The Somerville Drilling Company of Muskogee, capital, $10,000; incorporators W. R. Somerville and E. R. Somerville of Muskogee and Roy Somerville of Chicago.

Westmoreland Oil Company of Ardmore, capital $28,000; incorporators E. H. Royer, W. B. Royer and F. M. Adams, all of Ardmore.

The Rubana Oil Company of Wichita, Kansas, has been given permit to do business in Oklahoma. It has capital of $250,000. Officials are Bert Walker, Phil Drumm and C. L. Brosius, all of Wichita.

Other concerns admitted to transact business in Oklahoma are:

Midland Refining Company of Kansas, capital stock, $300,000; officials W. I. Osborne of Chicago, W. G. Skelly of Tulsa and G. W. Gray of El Dorado, Kas. Caddolene Drilling Company of Texas, capital stock, $25,000; officials, Carl H. Rehn, James L. Noland and Mrs. Carl H. Rehn, all of Caddo, Texas. Amerada Refining Corporation of Delaware, capital in Oklahoma $100,000. Big Four Oil Corporation of Delaware. Deep Rock Petroleum Company of Delaware, capital stock, $80,000. Pioneer Petroleum Corporation of America of Delaware, capital stock, $50,000; Geo. Irving of Guthrie, Okla., president.

Butler and Cowley Counties Are Most Active Districts in Kansas

AUGUSTA, KANSAS, Oct. 17.—Development of the Hazlett pool in Butler county and the pool struck by the Empire Gas & Fuel Co. in Cowley county continues to overshadow other sections of Kansas. Both these districts are having a play that will test their limits.

The well being watched closely in the Hazlett district is that of the Phillips Petroleum Co. on the Wilson fee in the NWc SW SE 36-23-5. This well is a mile north of the first well and a half mile east. It is now below 2200 feet drilling.

No. 1 Hazlett, the first well drilled by the Phillips Company, is now pumping around 800 barrels daily, 5 per cent of which is water. No. 1 Shepard is pumping 1200 barrels daily.

New rigs are being built around the Brown well in section 13-31-7, Cowley County. Reports this week show the Empire Gas & Fuel Co. built four rigs around it's successful wildcat. These rigs are located as follows: Sweet 1, NEc SW 13-31-7; Johnson 1, NWc SE 13-31-7; Brown 2, SEc NW 13-31-7; Green 1 NWc SW 15-30-10. The Ramsey-Lloyd Oil Co. is building a rig on its Sampson lease on the northeast corner of the northwest of section 27-31-7.

As yet the Empire Brown well has not been listed as a completion. Estimates of its production vary from 200 to 500 barrels. The Empire company is building field line to Cambridge, Kansas, where a loading rack will be built to take care of movement of oil from the district.

The Brown well is supposed to be in the Bartlesville sand, the formation well known throughout north Oklahoma for the long life of it wells. In the Brown well the sand has been drilled only three feet.

Three miles northwest of the Brown well, Scott and others have made location in the southeast corner of the northwest of section 33-30-7. This location is said to be on a different structure, worked out by Guy Scott, geologist of Wichita, who is in charge of drilling the test.

Bartlesville, Okla., Oct. 17.—In the study of oil field emulsions, being made by D. B. Dow, chemical engineer of the Bartlesville, Oklahoma, experimental station of the Bureau of Mines, data have been obtained of dehydration used in the Kansas fields. It was found that the method most commonly used was separation by the use of centrifugal machines, although considerable oil in the Kansas fields is dehydrated by chemical treatment.

All operators in Kansas are very much interested in the subject of dehydration for the reason that practically all the oil produced in the district around Eldorado has to be treated before it will be accepted by the pipe line companies. Practically every known method has been tried out in the Kansas fields, and in a number of cases, costly installations have been made that were not satisfactory for handling the particular type of emulsion encountered in that district.

A number of laboratory tests have been made to determine the influence of finely divided material upon the formation of emulsions. Tests were also made to determine the relation between the asphalt content of the original oil and the asphalt content of the oil-water emulsions.

THE WEEK IN KANSAS TOLD IN TABULATION

County	New rigs	Rigs abn.	Completions	Producers	Gas wells	Failures	Initial Prod. in bbls
Butler	..	..	4	3	..	1	1,035
Cowley	5	..	..	..	..	..	.....
Elk	..	..	1	..	..	1	.....
Greenwood	9	..	2	1	..	1	25
Marion	..	..	1	1	..	..	125
Totals	14	0	8	5	0	3	1,185

Bureau of Mines Studying Problems in Tonkawa

TULSA, OKLA., Oct. 17.—Arrangements are being made by the United States Bureau of Mines for conducting experimental development work in the Tonkawa oil field in Oklahoma. The Tonkawa field is at present producing approximately 10,000 barrels per day from 21 wells and 65 wells are being drilled.

The oil produced is of fine quality, the gravity ranging from 44 to 45° Baume, and brings from 75 cents to $1.25 per barrel. Operators have requested the Bureau of Mines to make an underground study of this field, as, due to steep dips, they have been having considerable trouble in drilling wells to the proper depth in the sand, with the result that already some companies are experiencing water troubles. The Tonkawa field offers an unusually good opportunity for a report on drilling methods, due to the fact that a number of diamond drills are being used for testing out structures, and a number of wells are being drilled with rotary tools. Due to a high-pressure gas sand which has been encountered, and to cavey formations, the rotary method of drilling is somewhat more satisfactory than drilling with cable tools, although the speed of drilling is about the same. Well logs and production records of the field have been obtained, and a map is being prepared.

CENTRAL WEST TEXAS PRODUCTION

Fort Worth, Texas, Oct. 16.—The daily average production of the various fields in Central West Texas for the past week is divided as follows:

STEPHENS COUNTY PRODUCTION

	Barrels
Mid-Kansas Oil & Gas Company	4,770
The Texas Company	4,025
Gulf Prod. Company	2,760
Humble Oil & Refining Company	2,700
Prairie Oil & Gas Company	2,400
Texas Pacific Coal & Oil Co.	1,610
Magnolia Petroleum Company	1,350
Fensland Oil Company	850
Sun Company	670
E. A. Landreth & Company	410
Sinclair Oil & Gas Company	345
Pierce Oil Corporation	235
Empire	150
Simms Oil Company	120
White Oil Corporation	70
Miscellaneous	11,385
Totals	33,850
Last Week	34,940

MISCELLANEOUS PRODUCTION

	Barrels
Strawn-Palo Pinto County	1,440
Moran-Shackelford County	1,270
Brown County	765
Corsicana	565
Mitchell County	190
Thrall	140
Coleman County	120

EASTLAND COUNTY PRODUCTION

	Barrels
Texas Pacific Coal & Oil Co.	1,430
Prairie Oil & Gas Company	1,135
Sinclair Oil & Gas Company	1,080
Gulf Production Company	600
Magnolia Petroleum Company	460
The Texas Company	445
Humble Oil & Refining Company	160
Empire Gas & Fuel Company	55
Mid-Kansas Oil & Gas Company	40
Sun Company	35
Simms Oil Company	35
Miscellaneous	7,175
Totals	12,650
Last week	12,975

DESDEMONA AND PIONEER PRODUCTION

	Barrels
Magnolia Petroleum Company	925
The Texas Company	320
Humble Oil & Refining Company	370
Mid-Kansas Oil & Gas Company	285
Texas Pacific Coal & Oil Company	360
Prairie Oil & Gas Company	120
Sinclair Oil & Gas Company	75
Sun Company	15
Empire Gas & Fuel Co.	35
Miscellaneous	7,375
Totals	9,880
Last week	10,325

*Includes Pioneer Production.

Central West Texas Crude Premiums Not as High as in North Texas

FORT WORTH, TEXAS, Oct. 17.—Field operations in the Central West Texas district—Stephens and Eastland Counties and Desdemona—has been unusually lacking in interest since the first of the month, and the falling off in new production is causing the daily output of all the fields to slump. Completions are few in number and below the average in initial production. Except for the Pioneer field, the operators in this district are not able to secure much premium above the posted price for their crude from independent refiners as is the case in the North Texas district, because of the comparatively small gasoline content of the crude. While a good demand still exists for all crude produced in the Central West Texas district from the major pipe line companies and a few independent refiners, the producers are not receiving enough for their oil to justify them in drilling additional wells, according to the version of a number of the operators, and the shortage of water is also forcing a curtailment of drilling in some sections.

Failure of C. M. Root's No. 1 L. R. Hough, which is a direct offset to the east of the Car-De-Zone Oil Company's wildcat producer in Eastland County, to make a producer from the 3350-foot oil sand caused disappointment to operators drilling around this discovery well last week. The Car-De-Zone Company's producer was brought in early in August on the Hough tract in the northwest corner of the southeast quarter of section 3, H. and T. C. Survey, Block 4, about four miles southwest of Eastland, making 1,000 barrels and 15,000,000 cubic feet of gas from three feet of pay topped at 3347 feet, and has been primarily responsible for more than a half dozen tests being drilled. The producer has since settled to less than 100 barrels daily, and will probably be drilled deeper soon. Root's test tested dry at the 3350-foot level, and was then carried down to 3415 feet and shut down. However, drilling is being continued on the second test, which is down to 1750 feet.

The wildcat test of Slay, Simon and Smith on the G. W. Rose tract, located about three miles due east of the Hough producer, and in the south half of the southeast quarter of section 24, is being watched with interest. Late last week it was drilling below 3475 feet.

The only oil producer reported in Eastland County last week was the Ardizzone and Braden Oil Company's No. 7 W. C. Kincaid, located north of Lake Eastland, with an initial flow of 130 barrels from 3215 to 3240 feet.

The Pioneer field experienced a dull week, and fell off about 100 barrels in daily production. The Revere Oil Company's No. 1 G. W. Cunningham, located outside the proven area and about one and a half miles east of the town of Pioneer, was given a shot of 90 quarts from 2435 to 2470 feet, resulting in a flow of 30 barrels in four hours. Efforts are being made to clean out to the bottom of the hole, with hopes of restoring production.

The Stephens County oil fields declined about 1000 barrels in production during the past week, and only added 210 barrels of new production from three completions reported. The largest well was brought in by Roeser and associates on the Shipley tract in the Curry-Aetna pool flowing 130 barrels natural at 3185 feet.

PIONEER DISTRICT PRODUCTION

Fort Worth, Texas, Oct. 16.—The daily average pipe line runs and tank car shipments of crude oil from the Pioneer field during the week ending October 11 were as follows:

	Barrels
McCamey, Sherrin, Dumas et al.	1,200
Pennant Oil & Gas Co. & T. B. Slick	650
Duquesne Oil Corporation	595
Pennant Oil & Gas Company	525
Keough et al	435
Texas Pacific Coal & Oil Co.	360
T. B. Slick	335
Rainbowend Oil Company	295
Junior Oil Company	280
States Oil Corporation	230
The Texas Company	200
F. W. Stone & Company	145
Simms Oil Company	130
Cohen et al	90
Pathfinder Oil Company	75
Brown & Company	70
L. A. Knight et al	70
Drury Petroleum Company	60
W. T. Herrick et al	60
Owenwood Oil Corporation	60
Miscellaneous	200
Totals	6,065
Last week	6,160

EASTLAND COUNTY COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Ardizzone & Braden's W. C. Kincaid 7	130	3240
Roberts Interests' Roberts 1	*	3405
W. I. Southern et al's J. B. Robinson 1	92	3535

STEPHENS COUNTY COMPLETIONS

Roeser et al Shipley 2	130	3185
Settled Production Co. Keel 2	50	3270
The Texas Co. Searcy 1	30	3275

STEPHENS COUNTY DRILLING REPORT

(NOTE—This report does not include wells that have been shut down indefinitely.)

Buckeye Development Co.'s Walker 7, sd for water 2250 ft. Benson Drilling Co.'s Thomas 2, making 5,000,000 ft gas and showing oil, sd 3210 ft. Booles & Bartrug's W. W. Copeland 1, dr 3260 ft. Bateman & Scott's Jones 2, dr 1150 ft.

Channel Oil Co.'s Moon 1, pulling casing to abn 4210 ft. Coogan et al's Crowley 1, ur casing 1260 ft.

Dawson & Davis' Cougher 1, fsh collapsed casing 3590 ft. Denson & Spurck's Black 1, fsh casing 2660 ft. Dallas Stephens Oil Co.'s Norton 1, co 3350 ft. Drake Oil Synd.'s Drake 1, ur casing 2995 ft.

Equity Petroleum Co.'s Brown 3, dr 1645 ft. Eliasville Pool Oil Synd.'s Douglas 1, sr casing 3155 ft.

Fred B. Foster & Co.'s Shipley C-1, dr

Magnolia Pays $2,225,000 for Burkburnett-Electra Properties

DALLAS, TEXAS, Oct. 16.—The Magnolia Petroleum Company has announced the purchase of all jointly owned properties of R. O. Harvey, L. H. (Shino) Cullum, J. J. Perkins and Frank Kell, all of Wichita Falls, operated under the name of the Harvey Leasing Account for a cash consideration of $2,225,000.00 and took actual possession of the producing leases 7 a. m. October 15, 1922. The deal involves approximately 1,800 barrels of daily average gross production located in the Burkburnett and South Electra fields in Wichita County and the Desdemona field in Comanche and Erath Counties, in addition to approximately 4,500 acres of undeveloped leases in Young, Stephens, Carson and Callahan Counties.

The bulk of the production is being furnished by nine wells located on two 80-acre tracts on the Rio Bravo Oil Company fee land in Section 31, Block 5, H. & T. C. Survey in the South Electra field. These two tracts were originally leased by Harvey and associates for a total consideration of $3,000, and have been developed since the first of the year. The daily output of the nine wells on the two tracts is approximately 1,280 barrels, and their initial production has ranged as high as 600 barrels each. There are three separate producing horizons developed on these two tracts, having one well on the 700-foot sand, one on the 1500-foot pay, and the remaining seven are flowing and pumping from the 1900-foot oil sand. The discovery wells of the 1500-foot and 1900-foot sands in this section of the South Electra field are located on these two leases.

The Burkburnett producing properties consist of an interest in Chenault, Rowe & Staley's 5 acre tract with four wells in Block 97 in the Northwest Extension, and a 10-acre lease on the W. K. Gillis tract in the Townsite with six wells. The Erath County lease is located several miles southeast of the town of Desdemona on the D. Lewis tract in the W. A. Browning Survey, Abstract 80, and has 103 acres with five wells making about 240 barrels daily.

The Magnolia Company only acquired a half interest in the Comanche County tract, since it was owned jointly by Harvey and associates and the Transcontinental Oil Company. It consists of 80 acres, located in the southwest corner of Block 5, H. & T. B. Survey, Abstract 506, about one mile west of Jakehamon, with three wells producing 50 barrels daily.

The undeveloped leases included in the purchase made by the Magnolia Company are widely scattered, and in some instances are close to production. The Carson County leases are situated close to the Gulf Production Company and W. W. Silk et al's oil producers on the Burnett ranch, while the Young County acreage includes a tract close to the Hemphill Interests' Corbett producer in the South Bend area.

The Magnolia Petroleum Company has been an active buyer of producing properties in Texas and Oklahoma during the past 12 months, and in addition to the above purchase, has spent approximately $750,000 for developed leases in the Southeast Burkburnett field in Wichita County.

945 ft. Fink & McFarland's R. O. Jackson 1, sd 2180 ft.

Hart Mexia Synd.'s Lee 1, dr 175 ft. Haile, Knight & Callahan's O. Curry 4, fsh bit 585 ft. Haile & Knight's Shipley 2, dr 680 ft. Humble Oil &Ref. Co.'s Curry B-2, dr 2970 ft; Curry B-3, dr 1880 ft; Mrs. J. B. Hart 5, water trouble 3320 ft. Hellenic Oil Co.'s Burgess 1, plugging to abn 2955 ft.

King, Nesbit & Booth's Abney 2, showing oil and gas, dr 3275 ft.

Lee Oil Co.'s Walker & Caldwell 2, making 100 bbls oil, dr 3200 ft. Livingston et al's Hodges 1, swedging casing 1930 ft. E. A. Landreth Co.'s Shipley 2, dr 750 ft.

Miller Bros.' W. T. Gurney et al 1, showing oil and gas with hole full of water after shot 660 quarts from 3655 to 3865 feet, td 3895 ft. Mid-Kansas Oil & Gas Co.'s G. W. Hill (Acct. 1), 9, dr 3895 ft; S. H. Hill 4, dr 2290 ft; Lee 1, ur casing 3330 ft. Magnolia Petroleum Co.'s J. M. Rush 10, dr 2600 ft; Rush 11, dr 1650 ft; C. N. Guest 5, showing oil and gas, dr 3315 ft.

Nourse & Sweeney et al's C. P. Jones 1, sd 1070 ft.

Oregon-Texas Oil Co.'s Jones 1, sd after shot 3420 ft.

Prairie Oil & Gas Co.'s T. L. Adams 1, dry after shot, co 3800 ft; Atkins 12, sd 1490 ft. Pennock Oil Co.'s Moore 1, fsh casing 2510 ft; Jones 1, dr 2940 ft.

Roxana Petroleum Corp.'s Corbett 1, swedging casing 4270 ft. Revere Oil Co.'s Ackers 3, dr 1838 ft.

Snowden & McSweeney's Ackers (Acct. 1) 9, co 3120 ft. Swensondale Oil Co.'s Swenson 23, dr 1180 ft.

The Texas Co.'s Parks A-31, moving back boiler 3050 ft; Curry 9, making 3,000,000 ft gas and showing oil, dr 3190 ft; Pierce 12, fsh casing 3280 ft; Day 11, flowing 25 bbls oil, dr 3140 ft; Fite 1, ur casing 2195 ft; W. M. Houston 3, dr 2670 ft; Womack 4, fsh casing 2195 ft; Lauderdale 9, dr 2425 ft; Black Bros. 17, making 10,000,000 ft gas after shot 150 qts from 3235 to 3295 ft. Texas Pacific Coal & Oil Co.'s T. L. Adams 5, fsh and dr by tools 3610 ft; J. H. Bratton 2, 1000 ft fluid in hole after shot 20 qts from 3718 to 3720 ft; A. S. Veale 3, sd 3092 ft. Texas Consolidated Oil Co.'s Martin 3, ur 2670 ft; Martin 4, sd for water 2715 ft.

DESDEMONA DRILLING REPORT

Harrison et al's Tidwell 1, sd 2520 ft. Hodnett et al's Allen 1, rig.

Kirk & Brewer's Westmoreland 1, 500 ft oil in hole from upper oil sand, dr 3000 ft. Kokomo Petroleum Co.'s Comer 1, rig.

Leon Valley Oil Co. Mrs. M. C. Haynes 2, dr 735 ft.

Magnolia Petroleum Co.'s N. E. Payne 1, rigging up.

EASTLAND & RANGER DRILLING REPORT.

Associated Oil Co.'s C. L. Downtain 1, dr 1550 feet.

Barkley et al's Wright 3, sd 3635 ft; Wright 4, rig. George Beggs et al's H. L. Gibson 2, dr 400 feet. Bettis & Alexander's G. W. Martin 1, dr 735 ft. Belport & Manly Interests' C. M. Vangeem 1, dr 840 feet.

H. R. Courtwright et al's L. Kellett 1, dr 1715 ft. Car-De-Zone Oil Co.'s L. R. Hough 2, dr 1950 ft; Agnes Harwood 1-A, dr 2230 ft; J. H. Latham 1, trying to shut off water after shot 3435 ft. Cardinal Oil Co.'s J. A. Brown 3, rig. E. A. Claytown et al's C. B. Whitten 1-B, making 3 million feet gas and water, dr 1465 ft. Colquitt & Shinholt's C. L. Downtain 1, spudding.

Drury Petroleum Co.'s T. E. Luse 1, rig burned 2840 ft. Day & Everest's W. F. Davenport 1, swedging cas 3405 ft; A. F. Loftus 1, dr 345 ft. Daugherty & Clark's Jacob Lyerla 1, dr 200 ft. Duquesne Oil Corp.'s J. L. Johnson 1, rig.

Eastland Oil Co.'s G. W. Martin 4, sd 3160 ft; Martin 9, rig; Martin 11, sd 1200 ft. W. T. Efy Interests' Paul Chastain 1, sd 1910 ft.

Garrett & Smith's T. L. Overby 1, dr 3165 ft. Gordon Petroleum Co.'s S. C. Bond 2, run cas 1105 ft; J. W. Caudle 2, run cas 1685 ft; Caudle 3, run cas 890 feet.

Hagaman et al's Hagaman 3, dr 2145 ft. Jas Haynes et al's J. C. Chandler 1, rigging up.

J. U. Johnson's J. C. Chandler 1, rig.

Miller Oil Co.'s Watson 1, sd 1580 ft. May & Clayton Drilling Co.'s Higginbotham 1, sd showing oil after shot, td 3305 ft. Mook-Texas Oil Co.'s G. L. Garrett 1, dr 2125 ft. Mastex Oil Co.'s Hill 1, sd 3520 ft.

New Southern Oil Co.'s W. J. Baumgardner 3, dr 3485 ft. Nixon Oil Co.'s C. T. Webb 1, fsh bailer 1860 ft.

Plateau Oil Co.'s C. O. Owens 2, fsh cas 3185 ft; Owens 3, rig. Panhandle Ref. Co.'s C. O. Owens 1, dr 1925 ft; Owens 2, dr 1325 ft; Owens 3, rig.

C. M. Root's L. R. Hough 1, failed to pick up 3300-foot oil sand, sd 3415 ft; Hough 2, dr 1740 ft. Root Drilling Co.'s W. N. Seaborne 1, spudding. Root, Rhodes & Sykes' E. E. Cowen 1, spudding; M. Hill 1, timbers.

States Oil Corp's G. W. Martin 4, sd 3235 ft; S. C. Bond 2, dr 1420 ft. Sinclair Oil & Gas Co.'s J. W. Davis 6, rig. Slay, Simon & Smith's G. W. Rose 1, dr 3475 ft. Marshall Spoonts' McCleskey 1, sd 2005 ft.

Texas-Iowa Oil Co.'s J. C. Laney 1, making 3 million ft gas, sd 2650 ft. Tex-Land Oil Co.'s C. U. Connellee 1, sd for cas 1880 ft. Texas Pacific Coal & Oil Co.'s W. T. Barker 4, dr 775 ft.

Frank Vance et al's C. Owens 1, dr 1785 ft.

Westland Synd.'s J. R. Stubblefield 1, sd for water 2055 ft. Weatherall Prod. Co.'s Fulfer 1, sd 3300 ft; Fulfer 2, sd 185 ft.

Tulsa, Okla., Oct. 17.—Renewing his acquaintances among the supply dealers and oil men in this field, W. F. Cummings of Syracuse, New York, is in Tulsa. He is connected with the Cummings Working Barrel Company and is accompanied on his trip by B. P. Moody, a supply dealer of Oblong, Ill.

Ferguson Pool in Northern Archer County Now Has Two Pipe Lines

WICHITA FALLS, TEXAS, Oct. 17.—The Ferguson pool in northern Archer County due south of the K-M-A field is now being served by two pipe lines following the completion of the Sunshine State Oil and Refining Company's four-inch line into the heart of the field last week. The Sunshine line was extended from the old K-M-A field to transport the company's own production to its refinery located in Wichita Falls, and connections have been made with several other leases. The Texas Pipe Line Company has been taking oil from the field since the discovery well was brought in last July.

The latest new producing horizon to be added to the Ferguson pool was definitely established late last week when the White Oil Corporation's No. 1 Kemp and Kempner, located about 1200 feet northeast of the discovery well, began flowing by heads at the rate of 130 barrels daily from five feet of oil sand topped at 1725 feet. Sunshine's No. 2 W. P. Ferguson was completed last week good for 40 barrels from 1445 to 1460 feet. Although located considerable distance from the Ferguson pool, Morrison and associates' test on the Coleman tract is reported showing for a small producer from three feet of sand picked up at 1270 feet. Casing is being set to make a test of the sand.

In the Electra field, the Camp Oil and Gas Company uncovered a new producing horizon on the L. P. Douglass tract last week when its No. 1-B picked up an oil sand at 1524 feet, resulting in the hole filling with oil when drilled five feet in the pay. A star machine is being set up to complete the well, which gives indications of being a good producer. This well is located about one mile due east of Electra, and has established a third distinct sand for the lease within the past two months, as the Gulf Production Company opened up the 922 and 1900-foot sands.

The South Electra field operators are again threatened with a water shortage, since The Texas Company has announced that its reservoir on Beaver Creek has been almost exhausted, and the present supply is hardly sufficient for their own needs. Local showers occurring in the district early this week only moistened the surface, and did not cause a rise in Beaver Creek.

The semi-wildcat test of the Noble Oil and Gas Company on the Woodall farm, located tbout two miles north of Wichita Falls, is making a deep test for production in this section of Wichita County, and early this week was drilling below 2480 feet. Particular attention is being paid to all formations, and most of the drilling is being done during the day in order to watch the cuttings from the hole more closely. Cores are also taken at frequent intervals. In the Southeast Burkburnett field, the Judson Oil Company completed its No. 10 L. & M. Dodson good for 50 barrels at 1060 feet.

Completions reported from the Young County fields during the past week were small producers, and no extensions of importance to the proven areas were made. The daily production during the past week for the county amounted to 10,495 barrels, which is a slight increase over the figures for the week previous. The Halmack Oil Company's wildcat well on the Hall farm, located four miles southeast of Graham, has been restored to the producing list after being off for several weeks when a shot checked the flow of oil. It is swabbing about 240 barrels daily with a total depth of 4220 feet.

R. E. Kennedy, independent oil operator and member of the partnership firm of Young Brothers & Kennedy of Wichita Falls, is a business visitor in Chicago this week.

Mitchell County Gasser Slowly Growing Weaker

FORT WORTH, TEXAS, Oct. 17.—The huge wildcat gasser and salt water well of the Mitchell County Oil Corporation on the W. H. Badgett farm in northern Mitchell County succeeded in battering down its derrick last Friday with the aid of the weight of a heavy coating of salt and other compositions that have been accumulated on the derrick timbers for weeks. This well has been flowing wild for the past few weeks making as high as 50,000,000 cubic feet of non-inflammable gas and 10,000 barrels of water heavily saturated with salt, with a total depth of about 1100 feet, including the additional depth the well has drilled itself. Early this week the well was reported to be exhausting itself in both gas and water production, and it is estimated that the production has settled to about 30,000,000 cubic feet of gas and 5,000 barrels of salt water.

The well was drilled with cable tools, and it is expected that the entire outfit will be an almost total loss since it has been drenched continually with salt water for over a month. When the derrick toppled, part of the wreckage fell on the engine house. Curt Bowser, who is one of the owners of the well and assisted in bringing it in, is attempting to find some method of shutting it in before the hole is completely lost.

Although this gasser and salt water well has established the reputation of being one of the wildest wildcats uncovered in West Texas in a number of years, it has served to attract large numbers of oil operators to the Mitchell County field. C. F. Kelsey and associates are hauling timbers to a location made on the same farm to commence a test immediately, and several others are practically assured.

Producing oil wells in the Mitchell County field now have a combined daily average production of about 190 barrels. Some of this oil is being consumed in the field for boiler fuel on other drilling wells, while the remainder is being shipped via tank cars to a refinery at El Paso.

Concho County is to be given a deep test by The Texas Company on the Houston Brothers' ranch, located a short distance south of the town of Paint Rock in the northern part of the county. This test was spudded in last week, and is to be drilled with cable tools.

ARCHER COUNTY DRILLING REPORT

Alfalfa Oil Co.'s L. C. Herron 1, reset casing 950 ft.

W. H. Barton & Co.'s S. M. Gose 3, dr 300 ft.

Darr et al's E. N. Birdwell 2, set casing 1764 ft. Dee & Bellport's S. M. Cowan 1, sd 3000 ft. Dillday & Knight's W. P. Ferguson 2, lcn.

C. Evert's Veith 1, sd 1510 ft.

F. & H. Synd.'s W. P. Ferguson 3, preparing to pump 1460 ft; Ferguson 4, dk.

Henshaw et al's T. Mankins 1, dk; Mankins 2, dr 500 ft.

Kentucky Oil Assn.'s W. H. Taylor 6, dr 600 ft; Taylor 1-A, reset casing 1635 ft; Taylor 2-A, dk.

Lanning, Moninger et al's T. Wilson 1, lcn. Lipe et al's W. L. Andrews 2, dr 650 ft. Looney & Loper's L. F. Wilson 1, dr 1125 ft.

Maxon Oil Co.'s W. H. Taylor 2, dk.

Plate et al's R. E. Farmer 1, sd 1570 ft. J. J. Perkins' T. B. Wilson 1, rigging up.

Smith et al's G. T. Netherton 1, sd 790 ft. J. I. Staley's Kemp & Kempner 3, lcn; W. P. Ferguson 1, dr 620 ft. Sunhine State Oil & Ref. Co.'s W. P. Ferguson 3, dk. Swastika Oil Co.'s J. T. Richardson 1, dr 1640 ft.

The Texas Co.'s W. Beck 7, dr 1597 ft; Beck 10, dr 700 ft; Beck 11 and 12, lcns. Texhoma Oil & Ref. Co.'s S. M. Gose 28, preparing to pump 1598 ft; Gose 29, dr 600 ft; Gose 30, dr 400 ft; J. J. Perkins 1, lcn.

White Oil Corp.'s Kemp & Kempner 1, flowed 35 bbls oil, testing 1730 ft.

K-M-A AND IOWA PARK DRILLING REPORT

Abah Synd.'s H. Munger 8, set casing 1600 ft.

Buffalo Texas Oil Co.'s W. Parker 1, dr 2140 ft. Burns & Gates' J. E. Roller 1, dr 850 ft.

Roy Cater et al's B. Parker 1, rigging up.

Holbrook & Wood's B. Parker 2, dr 900 ft.

Kellogg Oil Co.'s J. A. Watkins 1, set casing 1040 ft. K-M-A Oil Co.'s H. Munger 17, ur 2020 ft; H. Munger 18, dk.

Minn-Tex Oil Co.'s J. E. Roller 1 and 2, lcns.

Noble Oil & Gas Co.'s Woodall 1, dr 2210 ft.

Patterson, Steelsmith & Orth's B. Parker 4, preparing to pump 797 ft. Prime Oil Co.'s H. Munger 1-C, dk.

Steelsmith & Orth's B. Parker 2, dr 660 ft.

Texhoma Oil & Ref. Co.'s H. Munger 7, dr 1340 ft. TexOKan Oil Co.'s J. A. Kemp 2, run casing 980 ft.

Dr. C. W. Wallace's Ferguson 2-A, dr 1325 ft.

Tampico, Oct. 14.—Cortez well on lot 199, Amatlan, is good for about 20,000 barrels of oil and water, and it is thought it will be possible to flow about 1000 barrels of clean oil a day. The depth is 2100 feet.

Tampico, Oct. 14.—The best well of the week in Mexico was the New England Fuel Oil Company's No. 7 Pazzi in San Manuel, Panuco, which came in for 5000 barrels at 1885 feet. Pipe line connections are being made.

NORTH TEXAS FIELDS

NORTH TEXAS PRODUCTION

Wichita Falls, Texas, Oct. 16.—The daily average production of the various North Texas fields for the past week is divided as follows:

BURKBURNETT PRODUCTION

	Barrels
Magnolia Petroleum Company	3,125
Kansas & Gulf Company	1,835
Gulf Prod. Company	1,330
The Texas Company	1,285
Humble Oil & Refining Company	1,100
Panhandle Refining Company	745
McMan Oil & Gas Company	690
Texhoma Oil & Refining Company	600
Lewis Oil Corporation	580
Oklahoma Petroleum & Gasoline	560
American Refining Company	460
Hobbs Oil Co. (Middle States)	390
Skelly Oil Company	390
White Oil Corporation	100
Miscellaneous	13,785
Totals	26,975
Last Week	28,335

ELECTRA PRODUCTION

	Barrels
The Texas Company	6,725
Magnolia Petroleum Company	3,130
Empire Gas & Fuel Company	2,720
Hobbs Oil Company	2,450
Gulf Production Company	1,100
Griswold Oil Company	1,035
Humble Oil & Refining Company	300
Fort Dearborn Oil Company	135
Texhoma Oil & Refining Company	135
Panhandle Refining Company	85
Miscellaneous	3,775
Totals	21,590
Last Week	23,640

YOUNG COUNTY PRODUCTION

	Barrels
Roxana Petroleum Corporation	1,335
Ralco Oil Company	845
Cosden Oil & Gas Company	665
Panhandle Refining Company	545
Penn Cities Oil Company	515
Godley Oil Company	495
Sun Company	440
Mahlstedt Mook Oil Company	400
Fred B. Foster & Company	390
The Texas Company	290
Seaboard Oil & Gas Company	285
Hemphill Interests	280
Tyrell Oil Corporation	250
Gulf Production Company	235
Eureka Producing Company	220
Emerich Oil Company	215
North American Oil & Ref. Co.	215
Mutual Oil Company	210
Okla. Petroleum & Gas Company	210
Simms Oil Company	200
Conner et al	195
Union Oil Company	185
Betrand et al	160
New Domain Oil & Gas Co.	145
Westerfelt & Noble	140
The Ligon Company	140
Miscellaneous	1,290
Total	10,495
Last week	10,435

ELECTRA COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Baldwin Bros' Langford 1-B	30	960
Cline Oil Co.'s W. T. Waggoner 2-A	*	1920
Clover Oil Co.'s W. T. Waggoner 3	35	1634
Empire Gas & Fuel Co.'s		
S. B. Burnett 65	15	1920
S. B. Burnett 66	*	2290
S. B. Burnett 67	45	1935
Griswold Oil Co.'s W. T. Waggoner 2-D	*	1926
Burnett et al 28	10	1670
Gulf Prod. Co.'s S. B. Burnett 12-C	5	1955
Harrel et al's Mrs. Jennings 2	75	1482
T. F. Hunter et al's J. & J. Waggoner 2	8	1820
Jefferson Oil Co.'s J. & J. Waggoner 3	35	1511
McKenna & Moore's W. T. Waggoner 2	15	950
Wichita Pet. Co.'s S. B. Burnett 72	225	1933
Green & Dale's Beaver-Electra Ref. Co. 4	200	1933
Camp Oil & Gas Co.'s H. A. Overall 8	3	350

ARCHER COUNTY COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Dillday & Knight's W. P. Ferguson 1	100	1585
Iowa Park Oil Co.'s W. Andrews 1	25	901
Sunshine State Oil & Ref. Co.'s W. P. Ferguson 2	40	1460
The Texas Co.'s W. Beck 9	125	1603
Freeman & Hampton Synd.'s W. P. Ferguson 3	15	1460
Carl Parker's		
Jackson 3	†	530
Jackson 4	*	765

YOUNG COUNTY COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Prairie Oil & Gas Co.'s W. W. Storm 1	125	3022
C. R. Tyrell Oil Corp.'s J. S. Williams 7-A	50	3026
Duquesne Oil Corp.'s R. M. Williams 1	45	2465
Young County Drilling Co.'s R. M. Williams 1	155	3050

MISCELLANEOUS PRODUCTION

	Barrels
Holliday-Archer County	3,505
Kemp-Munger-Allen	1,745
Iowa Park	710
Petrolia	305

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

ELECTRA DRILLING REPORT

Associated Oil Co.'s S. B. Burnett 1, fsh 740 ft; Burnett 3, dr 315 ft.

M. J. Bashara's G. B. Ancell 1, dr 2480 ft. Borough & Heydrick's M. A. Barwise 1 ur 850 ft. Bridwell & Heydrick's W. T. Waggoner 18, dr 200 ft. Buchanan & Lyons' Mrs. G. Jennings 1, sd 1825 ft. Buffalo Southwestern Oil Co.'s L. P. Douglass 2, dr 1875 ft.

Camp Oil & Gas Co.'s Douglass 3-A, dr 50 ft; Douglass 1-B, moving in Star 1530 ft; Douglass 2-B, lcn; H. A. Overall 9, spudding. Carter & Fins' J. H. Fisher 1, std 1580 ft; Fisher 2, rigging up. Clover Oil Co.'s W. T. Waggoner 4, dr 1850 ft. Culberson et al's J. & J. Waggoner 12, dr 1898 ft.

Empire Gas & Fuel Co.'s S. B. Burnett 32, dk; Burnett 56, dr 1100 ft; Burnett 57, dr 1700 ft; Burnett 60, set cas 1880 ft; Burnett 62, dr 400 ft; Burnett 63, lcn; Burnett 68, dk; Burnett 70, lcn; Burnett 75, lcn; Waggoner 8-A, dk; Waggoner 9-A, lcn.

Fisher & Gilliland's J. A. Fisher 4, dk. Fred B. Foster & Co.'s Throckmorton 1, sd 1820 ft.

Gillispie et al's W. T. Waggoner 1, dr 1660 ft. Green & Dale's Beaver-Electra 3, co 950 ft; Beaver-Electra 5, set cas 1910 ft; Beaver-Electra 6, dk; Beaver-Electra 7, dr 700 ft. W. J. Green's Mrs. G. Jennings 1, sd 300 ft. Griswold Oil Co.'s Burnett 8, sd 520 ft; Burnett 28, testing 1650 ft; Burnett 30, moving in Star 1850 ft; Burnett 31, dr 1900 ft; Burnett 13-B, dr 630 ft; Burnett 14-B, dr 580 ft; Burnett 15-B, dr 100 ft. Gulf Production Co.'s E. A. Dale 1, dr 1900 ft; G. Jennings 5-A, dr 1545 ft; G. Jennings 6-A, dr 600 ft; Jennings 6, water trouble 2015 ft; L. P. Douglass 4-B, testing 1950 ft; Waggoner 1-E, bailing 1938 ft; J. D. Melton 5, dr 250 ft.

Hochaday & Shaw's W. T. Waggoner 3-C, dr 600 ft. Harper et al's J. & J. Waggoner 1, dr 2000 ft. Harrell et al's Mrs. G. Jennings 3, dr 610 ft. Harvey et al's W. T. Waggoner 3, lcn; Waggoner 11, dr 700 ft. Houston Oil Co.'s W. T. Waggoner 4, preparing to pump 1615 ft; Waggoner 5, dr 650 ft. Joe Howell et al's J. & J. Waggoner 1, dr 1660 ft. Humble Oil & Ref. Co.'s L. P. Douglass 3, dr 715 ft; W. T. Waggoner 5-B, rigging up. T. F. Hunter et al's J. & J. Waggoner 3, sd 1830 ft.

Kimble et al's L. P. Douglass 1, sd 710 ft. Kruger et al's Waggoner 3, dr 990 ft.

Ladd & Hannon's Waggoner 1-A, dr 1800 ft. Lewis Oil Corp.'s W. T. Waggoner 2, dr 1350 ft.

McDaniel et al's L. P. Douglass 3, dk. Stanley McGregor's J. & J. Waggoner 2, preparing to pump 1530 ft. McKenna & Moore's W. T. Waggoner 1, sd 2050 ft. Magnolia Petroleum Co.'s J. C. Duke 7-A, dr 1330 ft; L. P. Douglass 1, dr 1000 ft; G. B. Ancell 1, dr 780 ft; H. & T. C. 56, dr 1850 ft; H. & T. C. 58, dr 960 ft. Mutual Oil Co.'s S. B. Burnett 1, sd 1665 ft.

H. J. Newman's J. M. Smythe 1, lcn Noel et al's Waggoner 1, sd 640 ft.

J. O'Neil's Waggoner 2, sd 800 ft; Waggoner 5, dr 1860 ft; Waggoner 6, dr 710 ft; Waggoner 7, dk.

Pathfinder Synd.'s S. B. Burnett 7, sd 1400 ft; Waggoner 11, sd 100 ft. Chas. Pettit's Fee 2, dr 2200 ft. Petroleum Producers Co.'s W. T. Waggoner 12, dr 1525 ft. Prince Bros' A. C. Henson 1, set cas 1820 ft.

Rio Bravo Oil Co.'s W. T. Waggoner

10-E, sd 1958 ft; Waggoner 11-E, dk; Waggoner 5-A, dr 1860 ft. A. D. Robinson's Mitcham 1, dk. Rotary Drilling Co.'s Allingham 1, set cas 1930 ft; S. B. Burnett 1, sd 400 ft. Ryan Petroleum Co.'s G. E. Nance 9, dr 1650 ft.

Shamrock Oil Co.'s W. T. Waggoner 8, sd 1530 ft; Waggoner 9, dr 915 ft. Sooner Oil Assn's T. W. Roberts 1, sd 925 ft.

Texana Petroleum Co.'s J. & J. Waggoner 3, sd 1500 ft; Waggoner 4, dr 1010 ft. Texhoma Oil & Ref. Co.'s J. & J. Waggoner 1, sd 1930 ft; W. T. Waggoner 7-A, dr 1050 ft; Waggoner 8-A, dr 600 ft; Waggoner 9-A, rigging up. Texland Oil Co.'s J. & J. Waggoner 2, sd 1700 ft. The Texas Co.'s E. Evert 1, sd 1530 ft; W. T. Waggoner 221, dr 330 ft; Waggoner 241, dr 625 ft; Waggoner 242, dr 800 ft; Waggoner 243, dk.

United Prod. Co.'s Mrs. G. Jennings 2, dr 1284 ft.

Wichita Petroleum Co.'s S. B. Burnett 66, dk; Burnett 75, testing 1904 ft; Burnett 77, sd 400 ft.

YOUNG COUNTY DRILLING REPORT

Andrede et al's W. W. Storm 1, fsh 1450 ft. Associated Oil Synd.'s F. Herron 4, dr 1250 ft; and F. Herron 5, rigging up.

J. V. Bailey's Costello Bros 1, rigging up. Bertrand et al's Whittenburg 3, preparing to dr deeper 1890 ft; Whittenburg 4, lcn; Wergess 1, co 3040 ft. Brahaney Bros' I. R. Grantham 1, dr 4000 ft. Buchanon et al's Whittenburg 1, fsh 3775 ft. Burton et al's J. J. Fawks 1, dr 1905 ft. H. Byren's Mahoney 1, sd 3935 ft.

Cline Oil Corp.'s Costello Bros 1, set cas 900 ft. Ray Colcord et al's J. Kisinger 2, dr 2000 ft. Colpenn Prod. Co.'s J. L. Rhodes 1, dr 3600 ft; Rhodes 2, dr 3010 ft.

Detroit-Mexia Oil Co.'s J. T. Cotton 1, dr 3805 ft. Dyer et al's Whittenburg 2, dk.

Elk Basin Consolidated Pet. Co.'s J. A. Driver 11, ur 1700 ft.

Fred B. Foster & Co.'s L. L. Durham 1, co 3970 ft; Whittenburg 1, dr 1140 ft. Gulf Prod. Co.'s Grantham 1, dr 3885 ft; J. M. Askew 2, dr 3760 ft.

J. A. Julian et al's I. R. Grantham 1, dr 3590 ft; G. F. Parsons 1, set cas 2130 ft.

Leader Oil Co.'s M. R. Jarnagin 1, sd 3520 ft. Lewis et al's C. Granthan 1, rigged up and sd.

McKinzie Oil Co.'s T. C. Greenwade 1, sd 3995 ft. Mahlstedt Mook Oil Co.'s R. M. Williams 4-A, dr 1900 ft. Mann et al's Whittenburg 4, sd 1870 ft. Mexia Star Oil Synd.'s N. B. Carter 1, sd 200 ft. Monroe Oil Co.'s J. M. Askew 3, lcn; Mary Cox 1, sd 3400 ft; Jeffries 1, dr 3940 ft; G. F. Parsons 1, sd 2815 ft; G. Stewart 1, dr 600 ft.

Nash & Windfohr's R. M. Williams 2, fsh 2700 ft; Williams 3, dr 2500 ft. North American Ref. Co.'s B. F. Scott 10, dr 2060 ft; W. M. McCow 1, sr 2450 ft.

O'Tex Oil Co.'s G. F. Parsons 1, dr 3500 ft.

Paragon Oil Synd.'s D. G. Vick 1, sd 2775 ft. Penn Cities Oil Co.'s F. Herron 3-A, sd 2980 ft; Herron 1-D, dk; Herron 2-D, fsh 2600 ft.

Ralco Oil Co.'s Roark 3, dk; Driver 9, dr 100 ft. Revere Oil Co.'s Costella Bros. 1, sd 4200 ft; Costella Bros. 2, sd 2780 ft. Roxana Pet. Corp.'s N. Boozer 2, dr 1400 ft; W. C. Bunger 1, fsh 2875 ft.

Schimmell et al's J. L. Bratcher 1, dr 1300 ft. Shamrock Oil Co.'s J. A. Driver 1, set cas 3590 ft. Simms Oil Co.'s A. L. Lynn 2, dr 4150 ft. Sinclair Oil & Gas Co.'s J. Kisinger 2, rigging up. Snowden & McSweeney's J. J. Shirley 1, fsh 3870 ft. Southland Oil Co.'s J. Hughes 1, dr 3400 ft; F. Herron 1, dk. Standard Pet. Co.'s McBrayer 1, fsh 3770 ft. Sun Co.'s C. E. Ferguson 1, dr 2450 ft.

Tex-Northwestern Oil Co.'s Wilson-Copeland 1, dr 1595 ft. The Texas Co.'s J. Jones 2, dr 3290 ft; Jones 3, set cas 2000 ft; Jones 4, dr 2015 ft. Tex-Bunger Oil & Ref. Co.'s O. A. McBrayer 1, sd 100 ft. Tuloma Oil Co.'s A. M. Graham 1, fsh 4275 ft. C. R. Tyrell Oil Corp.'s J. S. Williams 3-A, dr 2870 ft; Williams 4-A, rigged up; Williams 6-A, dk; J. A. McLaren 1, dr 850 ft; River Bed 1-G, dk.

Union Oil Co.'s J. M. Askew 2, dr 3330 ft; G. F. Parsons 2, sd 75 ft; I. R. Grantham 1, dr 3828 ft.

Wells & Spellings' F. Herron 2, sd 1950 ft; H. P. Young 1, sd 85 ft. Whitehead et al's F. Herron 1, sd 800 ft; Herron 2, co 3030 ft. Whitehead & Hinson's J. A. McLaren 2, dr 100 ft. Whitehead & Tidwell's F. Herron 1, lcn.

Ft. Worth, Texas, Oct. 18.—The Texas Company's No. A-31 Parks, located in south half of Stephens County came in early this week making 250 barrels after drilling four feet into the pay for a total depth of 3220 feet.

Mechanical Engineers Meet in Tulsa Oct. 28

Tulsa, Okla., Oct. 17.—The Mid-Continent section of the American Society of Mechanical Engineers will hold its fall meeting here Oct. 28. The day will be devoted to study programs interspersed with entertainment features.

At 1 o'clock in the afternoon the members meet for luncheon at the University Club rooms in the New Wright building. The business session will be held there.

At 3 o'clock the session will adjourn to the Tulsa Country Club. Golf and other sports will serve for entertainment there. Dr. Bengamin Greenfield of the research department of the Doherty interests of Bartlesville will read a paper, "Combustion of Gas in Oil Field Boilers," in the afternoon. A motion picture, "The Story of Petroleum," is to be shown. This picture of four reels has been made by the Sinclair company under supervision of the U. S. Bureau of Mines. There also will be a comic picture.

Dinner will be served at 7 o'clock at the Country club. Speakers for the evening will be J. I. Harrington, consulting engineer of Kansas City, Mo., president of the American Society of Mechanical Engineers, and Charles O. Connor, Tulsa attorney.

E. A. Latimer of Magnolia Dies at Home in Dallas

Houston, Texas, Oct. 18.—Word has been received here of the death of E. A. Latimer, acting manager of the pipe line department of the Magnolia Petroleum Company, at his home in Dallas last Tuesday morning following a brief illness. Mr. Latimer was one of the best known and liked men in the industry.

Starting with the Standard Oil Company in his early youth back in New York, he has followed the oil development west having worked in the various fields of Indiana, Kansas, Oklahoma and Texas. At his death Mr. Latimer was recognized as one of the leading pipe line men in the country.

While working for the Prairie Oil and Gas Company Mr. Latimer laid his first pipe line connecting the Kansas fields with Oklahoma. He resigned his position with the Prairie in 1914 to accept the position of division pipe line superintendent for the Magnolia and was later made active head of that department. He was also in his early career connected with the Buckeye Pipe Line Company of Ohio.

Mr. Latimer is survived by his wife and son E. A. Latimer, Jr. The burial services were held from the home at 734 Howell street, Dallas, Wednesday.

Midwest Completes Three Producers at Salt Creek

Casper, Wyoming, Oct. 14.—So far this week, the Midwest Refining company announces the completion of five wells in Salt Creek, total production being 2044 barrels from the three tested. The other two have not yet been tested. The completions are:

Number 33-A Salt Creek Consolidated on the SE¼ of section 3-39-79 2572 feet; 800 barrels.

Number 4-A Salt Creek Consolidated on the NE¼ of Section 13-40-79, 2572 feet; 294 barrels.

Number 26, Wyoming Oil Fields on the NW¼ of section 26-40-79; 1410 feet, 950 barrels.

Number 15-A, Wyoming Associated, SW¼ of Section 19-40-79, 2250 feet; no test.

Number 26-A, Wyoming Associated, SE¼ of Section 26-40-79; 1415 feet; no test.

The Baxter Basin test is drilling at 2409 feet with the gas pressure increasing as the bit goes down.

Midwest test well is drilling at 3620 ft.

Crowe well number 2 in the Notches field is drilling at 985 feet.

Neiber Dome test has cemented 15 inch casing at 805 feet.

Wichita Falls, Texas, Oct. 18.—In the old K-M-A field, Art Boger and associates' No. 12 Munger is pumping about 110 barrels from three feet of sand picked up at 1605 feet.

Forty-One Papers Ready for Meet Of Geologists at Denver, Colorado

Denver, Colo., Oct. 14.—Important phases of geology as applied to oil will be discussed in the convention of the American Association of Petroleum Geologists, to be held at the Albany Hotel in Denver, October 26, 27 and 28. Foremost geologists in the country will attend. Students of the Colorado School of Mines and other nearby institutions where geology is taught will be invited, and following the convention those delegates who desire will be given an opportunity to visit the Salt Creek and Teapot oil fields in Wyoming.

Included among some fifty papers or addresses in preparation are the following: "Correlation of Wyoming Formations," C. H. Wegemann, chief geologist, Midwest Refining Company, Denver; "Some Ideas Regarding Oil Accumulations in the Rocky Mountain Region," T. S. Harrison, consulting geologist, Denver; "Waters of the Wyoming Fields," E. L. Estabrook, petroleum production engineer, Midwest Refining Company, Casper; "Further Notes on the Hydraulic Theory," John L. Rich, consulting geologist, Ottowa, Kan.; ,'Oil in Shoestring Sands," Elliott Blackwelder, professor of Geology, Stanford University; "Oil Possibilities of Western Mexico," Carl H. Beal, consulting geologist, San Francisco; "Oil Possibilities of Nebraska," E. F. Schramm, professor of geology, University of Nebraska; "The Amarillo Region," Wallace Pratt, chief geologist, Humble Oil and Refining Company, Houston; "Recent Developments in Rotary Drilling," R. E. Collom, State Oil and Gas Supervisor, San Francisco; "Oil in Red Beds," K. C. Heald, geologist United States Geological Survey, and "The Curry Field, Texas," F. H. Lahee, geologist, Sun Company, Dallas.

W. E. Wrather of Dallas, is president of the American Association of Petroleum Geologists, Max W. Ball, president of the Western Pipe Line Company, in Denver, is vice president of the association, and Charles E. Decker, of Norman, Okla., is the secretary and treasurer. Mr. Ball is also president of the Rocky Mountain Association of Petroleum Geologists, and C. M. Rath, 1104 First National Bank Building, Denver, is the acting secretary. The regional association is assiting national officers in the program and general convention features, through a local committee consisting of Max W. Ball, Western Pipe Line Company; C. A. Fisher, consulting engineer and geologist; C. T. Lupton, consulting geologist; J. M. Douglas, geologist, Union Oil Company of California; Dean E. Winchester, consulting geologist; L. R. Van Burgh, geologist, Elk Basin Conolidated Oil Company, and C. M. Rath, geologist, Midwest Refining Company.

Mid-Continent and Gulf Coast correlations.—R. H. Wood.

Diamond Drilling in the Rocky Mountain region. —J. H. Emerick.

Correlation of Wyoming formations.—C. H. Wegemann.

Effect of post-Jurassic folding on black oil accumulation.—F. F. Hintze.

Some Ideas Regarding Oil Accumulation in the Rocky Mountain region.—T. S. Harrison.

The Salt Creek and Teapot fields, Wyoming.—C. H. Wegemann.

Deeper sands in the Rocky Mountain fields.—C. T. Lupton.

Waters of the Wyoming fields.—E. L. Estabrook.

Oil possibilities of the Black Hills region.—E. G. Sinclair.

Oil possibilities of the Four Corners region.—H. W. C. Prommel.

Structure and Stratigraphy of Baxter Basin, Wyoming.—D. E. Hagemann.

Further notes on the hydraulic theory. —John L. Rich.

Oil in shoestring sands.—E. Blackwelder and J. L. Rich.

Canadian oil possibilities.—W. English.

Bureau of Mines work on petroleum.—T. E. Swigart.

Oil possibilities of western Mexico.—C. H. Beal.

Oil possibilities of Nebraska.—E. F. Schramm.

The oil shale situation.—D. E. Winchester.

Influence of faults on the accumulation of oil.—E. L. Estabrook.

Natural gas as a factor in oil migration and accumulation.—V. A. Mills.

The occurrence of oil in Igneous Rocks. —C. B. Osborne.

The Amarillo region.—W. E. Pratt.

Comparative stratigraphy in Montana.—C. M. Bauer and E. G. Robinson.

Possibilities of utilizing Rocky Mountain natural gas.—J. M. Alden.

Effects of pre-Jurassic folding on oil accumulation in Utah.—G. M. Ruby.

The deep producing area in the Pine Island District, Louisiana.—W. C. Spooner.

Core Drilling in California.—J. E. Elliott.

Oil fields of the Rawlins-Lost Soldier region.—E. W. Krampert.

The physical history of the Front Range of Colorado.—F. M. Van Tuyl and G. W. Machamer.

The Carboniferous of Colorado.—R. C. Coffin and H. A. Aurand.

The position of the geologist in an oil company.—E. Marquardt.

Origin of light oils in the Rocky Mountain region.—W. H. Geis.

Stratigraphic sections of Wyoming.—E. G. Sinclair.

Oil possibilities of the Cretaceous of Northwestern New Mexico.—J. M. Sickler and A. B. Beall, Jr.

Oil possibilities of Eastern Alberta.—J. G. Irwin.

Recent developments in the Cat Creek field, Montana.—E. A. Hall.

The relation of production and structure of the Dutcher Sand.—F. R. Rees.

Recent developments in rotary drilling. —R. E. Collom.

Oil in Red Beds.—K. C. Heald.

The Curry field, Texas.—F. H. Lahee.

Some methods of appraising oil properties.—T. H. Olds.

Wichita Falls, Texas, Oct. 17.—The wildcat test of the Glenn Petroleum Syndicate on the Reynolds farm in the southeast corner of Haskell County is showing for a commercial producer from an oil sand found from 1965 to 1985 feet. This test is located in Section 6 of the M. H. Landon Survey, about 10 miles southeast of the town of Haskell. It reported good showings of gas from 1880 to 1895 feet, and was being drilled with a hole full of water when the oil sand was picked up. The test has a total depth of 2110 feet.

BURKBURNETT COMPLETIONS

Company, wells, location	Initial Production bbls.	depth
Baldwin Bros' Kennedy 1-C....	25	959
Judson Oil Co.'s L. & M. Dodson 10	50	1060
W. M. Priddy's C. Birk 10....	*	1825

Makes Record Ahead of Swan Song; Many Burbank Pool Rigs Incomplete

TULSA, OKLA., Oct. 17.—Before chanting the notes of the swan song directed by the Department of the Interior, the Burbank pool of Osage county hung up a production mark of 83,771 barrels daily. Those are the figures from the Osage agency at Pawhuska for the seven day period ending October 11. The output came from 659 wells.

Unless the Department ruling, forbidding the completion of other than offset wells, is shortly revoked, that record is likely to stand for Burbank. Without it, the field was headed for the 100,000 barrel class with every indication of reaching that figure.

Under terms of the departmental ruling some 30 wells may be completed. While most of these should be big wells, they are not likely to overcome the natural decline in the older part of the pool.

All is quiet at Burbank, at least much more quiet than it was the morning of October 5, when the proclamation from the offices of J. George Wright, superintendent of the Osage agency, startled the oil industry of the Mid-Continent fields, bringing approval from many oil producers and grief to others.

At Burbank, stakes are being pulled on locations, rigs are left half complete, picks and shovels are left where cellars were started. Most of the drilling wells are active. But only the necessary offsets may be drilled into the Burbank sand.

The Burbank sand was first penetrated May 14, 1920, when the Marland Ref. Co. drilled into the pay in the Hickman well, getting a well that averaged 412 barrels daily for the remainder of the month and going to 521 barrels for the average the next month. The discovery well is still producing, giving up around 100 barrels daily.

Since then oil companies have paid something like $25,000,000 in bonus money into the coffers of the Osage Agency for the privilege of trying their luck on 10,000 acres of Burbank leases. The field has now produced about 25,000,000 barrels of oil. The value of the pool has been estimated at $100,000,000.

MEXIA PRODUCTION

Mexia, Texas, Oct. 16.—The daily average production of the Mexia field for the past week was divided about as follows:

	Barrels
Humphreys	25,560
Humble Oil & Ref. Co.	5,200
Gulf Prod. Co.	4,250
Magnolia Pet. Co.	3,980
Simms Oil Co.	3,600
H. J. Parker et al	2,650
Atlantic Oil Co.	2,570
Western Oil Fields Corp	2,540
J. K. Hughes	2,475
Danciger Oil Co.	1,700
Kirby Petroleum Co.	900
Wichita Pet. Co.	540
Miscellaneous	7,635
Total	63,600
Last week	63,720

CURRIE PRODUCTION

Mexia, Texas, Oct. 16.—The daily average production of the Currie field for the past week is divided about as follows:

	Barrels
Newblock Oil Co.	2,120
Snowden & McSweeney	1,450
Humphreys	1,680
Homaokla Oil Co.	1,050
J. K. Hugh s	600
Brothers Oil Co.	800
Sun Company	130
Gulf Production Co.	40
Cosden Oil & Gas Co.	80
Trapshooters Oil Co.	1,275
Total	9,225
Last week	10,475

MEXIA COMPLETIONS.

Company, Well, Location	Initial Production Bbls.	Depth
Humphreys Oil Co. Tatum 2.	110	1320
Simms Oil Co. Reid 9	760	3045
Navarro County—		
Brothers Oil Co. Bounds 4	120	2950
Cosden Oil & Gas Co. Bounds 1	200	3210

Lease Speculation Now Under Way In Vicinity of Central Texas Fields

MEXIA, TEXAS, Oct. 18.—Furnishing evidence of another possible oil producing locality in the general vicinity of the Mexia fields, the Texas Pacific Coal and Oil Company's gasser which blew in last week near Groesbeck, about midway between the Mexia and Kosse districts, has offered further attractions for acreage speculation and is being followed by an extensive leasing campaign. The acreage investment, however, is not being confined to the immediate vicinity of the new gasser but extends on southwestwardly to the Luling section of Caldwell county and even as far westward as the shallow fields of San Antonio.

The Groesbeck gasser which blew in last week for an estimated flow of 35,000,000 cubic feet of gas from what is believed to be a depth of approximately 3190 feet. The well had been drilled to this depth after having encountered a gas sand around 3020 feet, and at the shallow depth of 900 feet. When the well blew in much of the casing had been pulled so it is impossible to definitely determine from which level the gas is coming.

Operators are of the opinion that the flow is coming from the deeper level in which event the discovery is of outstanding importance. On the other hand, should the gas be coming from the shallower depth it will be of little interest as the Nacatoch gas sand found at this depth has been tapped in this vicinity for several years.

The well is specifically located in the northwest corner of the 93 acre Browder tract of the T. P. Plasters survey. The deeper sand found at 3190 feet is at a depth similar to that of the producing horizon at Mexia.

All available acreage in this part of the state is now being taken and should the Mid-Continent crude market hold at its present level or advance, the near future will no doubt witness one of the most intensive wildcat campaigns ever launched under way in Central East Texas.

Water conditions in the Kosse area have been somewhat relieved and only one test in the new district was reported shut down as a result of water shortage during the past week. Interest is growing tense in the new field as drilling progresses on the several wells now down below the 3000 foot level.

The Revere Oil Company's test on the Bratton lease, which was the second test to be put under way in the Kosse field is now at a total depth of 3595 feet and is rat holing ahead. The Hobbs Oil Company's Outz 1 is drilling around 3345 feet.

The field now boasts nine drilling wells with several tests shut down and field reports for the past week show four derricks up and ready to begin operation.

Only four wells were completed in the Mexia district during the past week of which two are credited to the Mexia field proper and two to the Currie section. The big producer of the week being the number 9 Reid of the Simms Oil Company in the Mexia field which is making 760 barrels from a total depth of 3045 feet.

In Freestone County the Gillam 1 well of Abernathy and associates has reached a depth of more than 4660 feet and is drilling ahead. The deep well of the Humphreys Interests on the Berthelson lease at Mexia is drilling at 4440 feet. The well is the interests No. 36 for the lease. Reports are that the well found a showing of oil around 4400 feet but efforts to confirm this were of no avail. The Humphreys people expect to get the Trinity Sand at about 4700 feet.

MEXIA DRILLING REPORT

Humphreys Oil Co.'s Berthelson 7-E, dr 3130 ft; Berthelson 36-W, dr 4455 ft; Dorsett 1, dr out plug 3015 ft; Henry 4, dk; Henry 6, lcn; Henry 11, dr 2435 ft; Henry 12, set cas 3015 ft; Kendrick 1-A, lcn; Mills 3, dr 2775 ft; Pittman 2, dr 2960 ft; Robertson 1, dr 3830 ft; Wilson 2, set cas 3020 ft.

Kirby Pet. Co's Freeman 7-A, fsh 2945 ft.

Magnolia Pet. Co.'s Thompson 12-B, sd 2960 ft.

Mexia Fish Pond Synd.'s Holton 1, sd 3180 ft.

J. K. V. Shaffer et al's Roller 1, sd 2365 ft.

Texas Company's Stroud 2, dr 3350 ft.

Limestone County.

Atlantic Oil & Pet. Co.'s Gunther 1, dr 3480 ft; Norris 1, fsh 3165 ft.

Battersby & Kyzer's Herring 1, dr 1960 ft.

Chappell et al's Kirby 1, sd 3130 ft.

Dallas-Mexia Co.'s Allen 1, sd 670 ft.

Danciger Oil & Ref. Co.'s Cook 1, dk.

Daturna Oil Synd.'s Askew 1, sd 3145 ft.

Dodwell et al's Champion 1, fsh 2615 ft.

Grogas et al's Gordon 1, co 3070 ft.

Iron Clad Oil Synd.'s Gill 1, tools stuck in cas 3220 ft.

Limestone Co. Leasing Synd.'s Moody 1, sd 2855 ft.

Mexia Red Seal Synd.'s Cook 1, sd 3475 ft.

Mexia Simmons Oil Synd.'s Simms 1, sd 3225 ft.

Mexia Wonder Pool's Whitcomb 1, sd 2135 ft.

Morley & Morley's Head 1, sd 960 ft.

Perry & Trustee's Bounds, 1, fsh 2930 ft; Bounds 2, dr 2625 ft.

J. B. Shummell's Jones 1, to std 3885 ft.

Frank Smith et al's Arnett 1, sd 270 ft; Smith 1, spudded and sd.

Texas Cent. Oil Synd.'s Cook 1, sd 3075 ft.

Texas Mexia Synd.'s Matgsiak 1, sd 3250 ft.

Big Williams Oil Co.'s Lewis 1, testing 2995 ft.

T. & P. Coal & Oil Co.'s Browder 1, to reset cas 3060 ft.

Yoder et al's Oliver 1, sd 2200 ft; Priddy 1, sd 2880 ft.

Freestone County

Abernathy et al's Gillam 1, dr and coring 4670 ft.

Bentley & Malone's Gilpin 1, sd 730 ft.

Dugges & Glazier, sd 995 ft.

Mexia Teague Oil & Gas Co.'s Teague Townsite 1, sd 2095 ft. Mike Healy Pool's Daniels 1, dr 3910 ft.

O. K. Oil & Gas Co.'s Knight 1, dr 3690 ft.

F. E. Pope et al's Smith 1, sd 3645 ft.

Smith & Swift's Bounds 1, set liner to test 3080 ft.

Texas Company's W. S. Evans 1, set cas 2915 ft. The Thad McLain Co.'s Green 1, sd 2145 ft. Trapshooter Riley Oil Co.'s Couch 1, sd 3195 ft.

Navarro County

Atlantic Oil & Prod. Co.'s Church Lot 1, sd 2960 ft.

Baker et al's Davis 1, dr 2370 ft. Bert & Bert's Hamilton 1, fsh 2935 ft. Brothers Oil Co.'s Bounds 2, lcn; Bounds 5, dr by cable tools 2965 ft; T. W. Bounds 2, dr 1840 ft.

Columbia Company's Lawrence 1, sd 1500 ft; Wilkes 1, dk. Compass Oil Co.'s County Farm 1, dr 3140 ft. Corsicana Deep Well Co.'s Burk 1, dr up bailer 2550 ft. Cor-Tex Oil Co.'s Gray 1, sd 4140 ft.

Duncan & Johnson's McEntire 1, rigged up and sd.

Erwin et al's John Ralson 1, dr 2800 ft.

C. J. Flanigan et al's Swink 1, sd 3040 ft. F. F. F. Oil Co.'s Moody 1, dr out plug 2870 ft.

Gilbert & Hunter et al's McCline 1, sd 3030 ft. Gulf Production Co.'s R. V.

Hughes County, Oklahoma, Wildcat Is Flowing 500 Barrels by Heads

TULSA, OKLA., Oct. 18.—The Prairie Oil and Gas Company has initial production of 500 barrels in a wildcat test in section 5-9-10, Hughes County. Sand found at 3028 feet was penetrated but two feet when the well began flowing by heads. The oil tests 40.5 degrees, according to reports from the field.

The oil is now flowing into tankage. A line is being laid by the Prairie Pipe Line Company from its Okemah terminus six miles north in Okfuskee County.

This is the first production of any consequence in Hughes County. It marks an extension in the southern limits of the oil pools that have been uncovered during the past few months in Okfuskee County.

The well is owned by the Prairie Oil and Gas Company and other parties, and it has been drilling several months. Another test by the same ownership in section 4-9-10 was stopped at 3042 feet last month, with a show of oil from 12 feet of sand. The 6-inch casing is to be underreamed to the top of the sand in this well and efforts made to bring it in as a producer.

As soon as the pipe line is completed to the producing well, a decision will be made as to further drilling in the hole.

This completion makes necessary the drilling of other wells nearby. Just how many is not known. The Prairie will be forced to drill one other well. Acreage around the well is closely held, with the larger concerns owning big blacks.

Bounds 2, set cas 2910 ft; C. S. West Est. 1, set cas 2950 ft.

Houston Oil Co.'s Bounds 1, trying to plug off water 3225 ft. Hughes & Harmon's Griffin 1, sd 835 ft. J. K. Hughes Dev. Co.'s McGaw 5, sd 2955 ft; C. S. West Est. 1, dr 2425 ft. Humble Oil & Ref. Co.'s West 1, set cas 2935 ft. Humphrey Texas Co.'s Mattie Bounds 3, std 2895 ft; Mattie Bounds 4, lcn abn; Mattie Bounds 5, recement cas 2900 ft; Mattie Bounds 6, dr 2270 ft; Mattie Bounds 7, std 2895 ft; Singleton 1, repairing dk 3575 ft.

March Oil Co.'s C. S. West Est. 1, sd 2255 ft.

Gilbert S. Johnson's Albritton 1, sd 3180 ft.

McCormack Mexia Synd.'s Swink 1, sd 2500 ft. Mexia Wortham Equit. Synd.'s Fortson Bros. 1, dk.

Newblock Oil Co.'s M. Bounds 5, resetting liner 2945 ft; Bounds 4, lcn; Bounds 6, lcn; Bounds 7, lcn.

Panhandle Oil & Ref. Co.'s West 3, dr plug 2945 ft.

Ranger Vindicator Oil Dev. Co.'s Thornton 1, sd 3300 ft. Revere Oil Co.'s Ferrell 1, sd 2195 ft.

Sanders & Wheelock's Edens 1, sd 1175 ft. Seay & Cranfill's Hardy 1, std 2995 ft; West 2-A, dr 2425 ft; West 3-A, rigging up. Snowden-McSweeney's Longbotham 4, dr 1950 ft.

Trapshooter Dev. Co.'s Bounds 1, lcn; Bounds 2, sd 2970 ft; T. W. Bounds 2, fsh 2990 ft; R. V. Bounds 4, made 100 bbls 2950 ft, to go deeper with cable tools.

Varley et al's Keiph 1, fsh 3010 ft.

Wafer Oil Co.'s Wilkes 1, sd 1795 ft. J. H. White et al's Fortson Bros. 1, sd 1100 ft.

Kosse District

Engle et al's King Estate 1, dk.

Hobbs Oil Co.'s D. E. Outz 1, dr 3350 ft. Humphrey Oil Co.'s W. D. Allen 1, dr 3165 ft; Bassett 1, sd for cement to set 2865 ft.

Kosse Chief Oil Synd.'s Foy 1, Blk. 12, sd 1495 ft. Kosse Gusher Synd.'s Allen 1, dr 975 ft. Kosse Mid-West Oil Co.'s Garrett 1, dr 1225 ft. Kosse White Str. Synd.'s Johnson 1, dk.

McPhail et al's Rogers 1, dr 2935 ft.

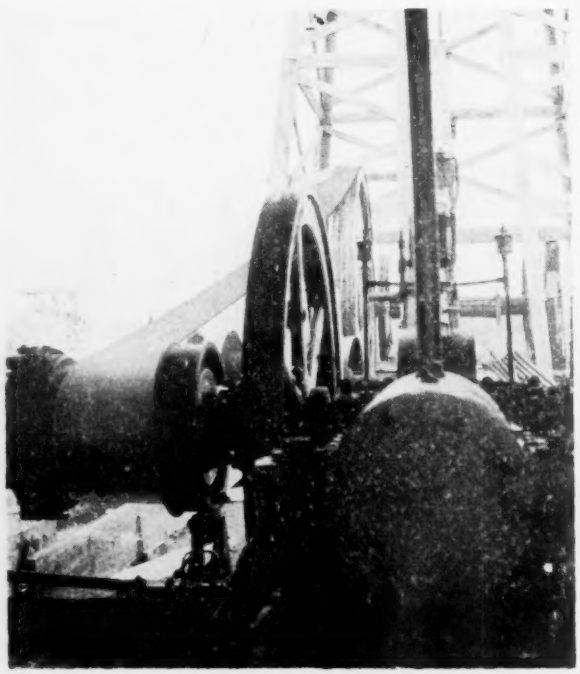
Revere Oil Co.'s Bratton 1 (Lot 2), feeling ahead 3610 ft; Harper 1, dk.

T. C. Oil Co.'s Bratton 1, dk. Thompson Oil Corp.'s King Estate 1, dr 375 ft.

Wilcox Oil Synd.'s Allen 1, Blk. 18, Lot C, dr 2275 ft. Williams & Pyle's Jolly 1, sd for cas 2670 ft.

Dan Dillon et al's Molstead 1, spudded and sd for water.

J. K. Hughes Dev. Co.'s Hammond 1, dr 950 ft.



More POWER to You!

The advantages that await you in Goodrich "COMMANDER" Transmission Belt are well illustrated by what the owner of this well found out during drilling.

—It hugs the pulleys so tightly no belt dressing is required; even, sustained power—no loss of stroke.
—It is so cushioned that no sudden pull or sharp shock can rupture it.
—It is practically without stretch; rarely requires a take-up.
—It is moisture proof; dampness cannot shrink or stretch it. Will not stiffen—always pliable, easy to handle.
—Its specially woven duck gives firmer and surer anchorage for clamps and fasteners; properly applied the belt ends cannot tear apart.
—It is the best power-transmitter, the most satisfactory and most economical to buy.

You can duplicate "COMMANDER" qualities in one way only—by buying "COMMANDER." Try it! Goodrich distributing points are near you.

THE B. F. GOODRICH RUBBER CO.,
Akron, Ohio

Goodrich
Commander
TRANSMISSION BELTS

"Best in the Long Run"

Permits For New Wells in Texas

Austin, Texas, Oct, 17.—Notices of locations furnished the Oil and Gas Div sion of the Texas Railroad Commission during the past week for new wells to be drilled in the state follow:

Atascosa County.—Well No. 24, 307 ft from W and 909 ft. from N line G. W. Caruthers lease, J. W. Cooper survey started September 24. Well No. 11, 150 feet from W and 728 feet from N line J. F. Shaw lease, E. A. Jasper survey, started September 25. Well No. 11, 918 feet from E and 928 feet from N line W. F. Hartung lease, Ely Schoonover survey, started September 25. Same lease, well No. 8, 250 feet from S and 1320 feet from W line, started September 9. Grayburg Oil Co., well No. 2, 225 feet from N and E lines Morgan Williams lease, J. S. Morris survey, started August 21 to drill 1800 feet.

Archer County—Stewart & Morton, well No. 1, 150 feet from N and E lines E. M. Hughes lease, DCSL survey No. 3, to start October 14 to drill 1100 feet. The Texas Co., well No. 1, 300 feet from E, 1200 feet from N line C. J. Chance lease, J. A. Garrison survey abstract 1098, to start October 12 to drill 1800 ft. Texhoma Oil & Ref. Co., well No. 1, 1411 feet from S and 200 feet from W lines J. J. Perkins lease, section 10 ATCL survey, to start October 17 to drill 2000 feet. Freeman Hampton Oil Corp., well No. 4, 150 feet from S and W lines W. P. Ferguson lease, section 2 SP Ry survey, to start October 16 to drill 1600 ft.

Angelina County—Walter S. Rae, well No. 1 about 800 feet from N and 1500 feet from W line J. W. Weeks lease, Eunice Butler survey, to start October 6 to drill 1000 feet.

Bexar County—W. E. Rutledge et al, well No. 1, 150 feet from S and W lines block 10, S, C and T sub-div. H. Peace league, to start October 4 to drill 1400 feet. Grayburg Oil Co., well No. 17, 932 feet from S and 290 feet from W line H. Schmidt lease, F. Rollen survey, started September 22.

Brown County—F. B. Price et al, well No. 1, 150 feet from N and E lines Buzbee lease, Jesse Dickinson survey, started August 16 to drill 3000 ft.

Brazoria County—Gulf Prod. Co., well No. 3, on W line 2nd location from S line E. J. Eyres lease, Hogg sub-div., to start October 16 to drill 3300 ft.

Callahan County—S. G. Roberts, well No. 3, 600 feet north of No. 2, R. D. Taylor lease, section 62 D&DA lands, to start October 12 to drill 800 feet. S. G. Roberts, well No. 4, 300 feet west of No. 3 H. D. Taylor lease, section 62 D&DA lands to start October 16 to drill 800 feet. D. H. Moore et al, well No. 1, 160 feet from S line 225 ft from E line Joe Neuman lease, section 8, D. & D. A. lands, to start October 15 to drill 500 ft.

Cass County—Hughes Springs Oil Co., well No. 1, 600 ft from N and W lines J. T. Stovall lease, O. H. King survey, started September 3 to drill 3000 feet.

Chambers County—Hindman Pugh Oil Co., well No. 2, 50 feet from S and W lines Wilbur Fishes lease. Wm. Bloodgood Augmentation, to start October 15 to drill 3500 feet. The Texas Co., well No. 2, 211 feet from N and 50 feet from E line E. N. Barrow lease, Wm. Bloodgood league, to start October 25.

Comanche County—W. A. Forester et al, well No. 9, 330 feet from N and 290 feet from W line J. M. Boykin lease, section 2 BS&F Ry survey, start October 12 to drill 360 feet. Leon Valley Oil Co., well No. 2, 1000 feet from N line, 2500 feet NW of well No. 1, Mrs. M. C. Haynes lease, BBB&C Ry survey, started September 16 to drill 3000 feet.

Coleman County—Pattison, Baker & Wray, well No. 1, 300 ft from S and E lines G. M. Gray lease, M. Izod survey, to start October 17 to deepen to 3300 feet.

Clay County—O. L. Bain Trustee, W. Falls, well No. 1, 150 feet from E and 1462 feet from N line Donaldson & Ligon lease, block 133 Byers Bros. sub-div., to start October 17 to drill 3000 feet.

Eastland County—M. B. Hale, well No. 1, 150 feet from S and W lines J. E. McLendon lease, section 71 LAL survey, to start September 30 to drill 950 ft. Panhandle Ref. Co., well No. 1, 150 feet from N and W lines NW¼ of NE¼ of NE¼, section 3 block 3 H&TC Ry. survey, to start October 16 to drill 1300 feet. McCamey & Sherin, well No. 1, 200 feet from S and E lines D. J. Armstrong lease, W. J. Thompson survey, to start October 18 to drill 2500 feet. Same lease, well No. 2, same date and depth, 200 ft from N and E lines. Kirk & Brewer Oil Co., well No. 1, 2400 feet from N and 450 feet from E line W. G. Westmoreland lease. T. Tyler survey, started July 31 to drill 3200 feet. Crude Oil Dev. Co., well No. 2, Zula Horton lease, J. Salinas survey, to start October 15 to deepen from 2785 to 2920 feet. Crude Oil Dev. Co., well No. 2, 800 feet from N and 1440 feet from W line Mrs. J. N. Abernathy lease, E. L. Price survey, started October 11, to drill 3150 feet. Shinolt & Colquitt, well No. 1, 205 feet from S and 200 feet from W line C. L. Downtain lease, section 25 block 4 H&TC Ry survey, to start October 12 to drill 3500 ft.

Looking up Joes Creek, West Virginia, on Cabin Creek property of Pure Oil Co.

Ft. Bend County—Gulf Production Co., well No. 3, 150 feet from S and W lines Bassett Blakeley B lease, E. Drew survey, to start October 13 to drill 2950 ft.

Falls County—Brazos Falls Oil Co., well No. 1, 310 feet from S and 800 feet from W lines A. P. Brown lease, Mary Prior league, abstract 53, to start October 1 to drill 3500 feet.

Gonzales County—Pioneer Oil & Gas Co., well No. 1, 605 feet from S and 2124 feet from E line J. D. Patterson lease, R. S. Amstead league, started July 12.

Harris County—Gulf Prod. Co., well No. 9, on E line 2nd location from S line G. Galliard "A" Fee, Wm. Scott Labor, to start October 7 to deepen to 2800 feet. Four & Four Oil Co., No. 3, 50 ft E of No. 2 Jules Hirsch lease, J. B. Jones survey, to start October 14 to drill 1250 ft.

Hardin County—E. F. Simms, well No. 1, 1800 feet from N line 2300 feet from W line Olive Sternenberg & Co. lease, Jos Landis survey No. 2, to start October 14 to drill 2500 feet.

Liberty County—Higgins Oil & Fuel Co., well No. 4, NE corner 50 feet from each line A Merchant lease, in block 2 Merchants sub-div., J. Devore survey, to start October 14 to drill 3500 feet. Gulf Production Co., well No. 12, 1 location W of well No. 11, 2nd location from S line E. M. Scarbrough lease, section 28 I&GN Ry survey to start October 16 to drill 3500 feet. Well No. 5, midway between wells 3 and 4 on E line D. Hannah lease, J. Devore survey, to start October 10 to drill 1200 feet. Well No. 32, 1 location NE of No. 25 Phenix Dev. Co. lease, J. Devore league, to start October 10 to drill 3350 feet. Well No. 4, on E line 3rd location from S line D Hanna Fee, J. Devore league, to start October 10 to drill 900 feet. Yount Lee Oil Co., well No. 4, 180 ft from N and 234 from W line A. Merchant lease, J. Devore league to start October 12 to drill 3500 feet. Well No. B-5, 50 feet from W and 150 feet from S line Able lease, J. Devore league, to start October 11 to drill 2500 feet. Same lease, well No. B-4, 50 feet from N and W lines, to start October 11, to drill 2500 feet. E. D. Staggs et al, well No. 1, 50 feet from S. and W lines H. E. Marshall lease, J. Devore league, to start October 20 to drill 2000 feet.

Limestone County—Bosworth & Davies, well No. 1, 150 feet from SW and SE lines C. W. Brown lease, Geo Gentry survey to start October 20 to drill 3800 feet. Humphreys Oil Co., well No. 8-East, 152 feet from NW and 305 feet from SW lines at South SW corner A. E. Berthelson lease, P. Varella survey, to start October 16 to drill 3100 feet. Humphreys Oil Co., well No. 4, 151 feet from W and 640 feet from S. line T. W. Mills lease, to start October 16 to drill 3100 feet. Same lease, well No. 5, 300 feet N of No. 4, to start October 16 to drill 3100 ft. Smith & Shockley, well No. 1, 800 feet S of NE inside corner W. B. Dorsett lease, E. W. Shriver survey, to start October 12 to drill 3100 feet.

Mitchell County—C. F. Kelsey, well No. 1, 300 feet from N and E lines W. H.

Badgett lease, section 2 block 28 T&P Ry survey to start October 20 to drill 3000 feet.

Milan County—A. W. Wolfe, well No. 1, SE corner 150 feet each line D. S. Gilliland lease, J. J. Acosta survey, to start October 12 to drill 115 feet.

Navarro County—Brothers Oil Co., well No. 5, 655 feet from N and 200 from W lines T. W. Bounds lease, T. T. Curry survey, to start October 9 to drill 3000 feet. Trapshooter Dev. Co., well No. 5, 550 feet from W and 150 feet from N line T. W. Bounds lease, E. Hillhouse survey, to start October 18 to drill 3100 feet.

Newton County—A. W. Bryan, well No. 1, 600 vrs from S and 1800 vrs from W line S A. Stark lease, A. L. Stark survey to start October 25 to drill 3500 ft.

Orange County—Humble Oil & Ref. Co., well No. 2, 50 feet from S and W lines Carabello lease, Wm. Dyson survey to start October 15 to drill 4000 ft.

Palo Pinto County—The Ashe Syndicate, well No. 2, at center of NW¼ of SW¼ of section 24 Mrs. J. B. Hart lease, block 4 T&P Ry. survey, to start October 2 to drill 3400 feet.

Panola County—Bethany Oil & Gas Co., well No. 212, 500 feet N and E from SW corner SW corner S. M. Burns lease, W. A. Birdson survey, to start October 15 to drill 2600 feet.

Runnels County—Russell Prod. Co., well No. 2, 2379 feet from N and 7119 feet from W line R. R. Russell Est., J. Hughes survey No. 227, to start October 14 to drill 2500 feet.

Shackleford County—Hobbs & Chenault, well No. 3, 150 feet from S 1950 feet from E line Jesse English lease, section 32 University lands, to start October 5 to drill 800 feet. Same lease, well No. 4, 150 feet from N and W lines, to start October 10 to drill 800 feet. C. A. Barber Trustee, well No. 2, 150 feet from W and 450 feet from N line J. E. Wild lease, section 69 University lands, to start October 9 to drill 600 ft. A. G. Ilseng, well No. 1, 300 feet feet from W and 150 from S line Webb Stephens lease, section 29 University lands, to start October 12 to drill 600 feet. H. C. Stovall, well No. 1, 160 feet from N and W lines Dave Hamilton lease, section 51 University lands, to start October 11 to drill 700 feet; Well No. 24, 150 feet from N and W lines W. H. Stephens lease, section 31 University lands, to start October 7 to drill 700 feet. A. G. Ilseng., well No. 1, 150 feet from S and W lines Webb Stephens lease, section 29 University lands, to start October 9 to drill 300 feet. Liston & Farrell, well No. 1, 444 feet from N and 1240 feet from E line T. E. Hayden lease, section 79 University lands, to start October 15 to drill 600 ft.

Stephens County—M. B. Hale, well No. 1, 150 feet from S and W lines J. E. McClendon lease, section 71 LAL survey, to start October 9 to drill 850 feet. The Texas Co., well No. A-33, 300 feet from S and 750 feet from E line J. W. Parks lease, section 3370 TE&L Co. survey, to start October 10. Same lease, well No. A-34, 330 feet from N line 1000 feet from W line, to start October 10; well No. 1, 150 feet each line north corner Wm. Black lease, section 1145 TE&L Co. survey, to start October 10. Gulf Prod. Co., well No. G-18, 500 feet from S and W lines G. A. Stoker lease, section 2087 TE&L Co. survey, to start September 30 to drill 3300 feet. Hart Mexia Syndicate, well No. 1, at center of NW¼ of NW¼ of SE¼ section 15 block 4 T&P Ry. survey, to start October 3 to drill 3400 feet. Halle, Knight & Callahan, well No. 4, 330 feet from S and E lines O. Curry lease, section 17 LAL survey, started September 16 to drill 3200 feet.

Webb County—Carolina Texas Oil & Gas Trust, well No. 5, 150 feet from E and S lines sub-div 11, survey 268, to start September 27 to drill 3000 feet. Carnahan Prod. & Ref. Co., well No. 7, 225 feet from E and 450 feet from S line E. Garcia lease, survey 53, to start October 14 to drill 1600 feet. Carnahan Prod. & Ref. Co., well No. 9, 150 feet from S and 2850 feet from E line E. Garcia lease, survey No. 53, to start October 16 to drill 1600 feet. O. W. Killam, well No. 1, 150 feet from S and W lines subdiv 3 E. Garcia lease, survey 607 GC&SF Ry survey, to start October 5 to drill 1800 feet.

Wichita County—Frank Baldwin et al, well No. 5, 150 feet from N, E and W lines J. W. Kennerly lease, GC&SF Ry. survey No. 6, to start October 10 to drill 1000 feet. The Little Syndicate, well No. 11, 150 feet from W line 300 feet N of No. 10, T. J. Cole lease, McCool survey, to start October 14 to drill from 200 to 250 feet. Pathfinder Syndicate, well No. 8, 309 feet west of No. 4, Burnett & Loyd lease, section 5 HT&B Ry. survey, started August 21, to drill 500 feet; Same lease, well No. 9, date and depth, 300 ft north of No. 8 and 300 feet west of No. 8; Same lease, well No. 10, 150 feet from E line 1228 feet from S line, started August 22, to drill 700 feet; Same lease, well No. 11, 450 feet from E and 1305 feet from N line, started August 29 to drill 500 feet; Same lease, well No. 13, 300 ft. N of No. 11 450 feet from E line, started August 29 to drill 500 feet; Same lease, well No. 14, 1528 from S and 750 feet from E. line, to start October 12 to drill 1400 feet. Associated Oil Co., well No. 3, 470 E and 160 north of SW corner S. B. and T. L. Burnett lease, section 7 HT&B Ry survey, to start October 8 to drill 475 feet. Humble Oil & Ref. Co., well No. B-5, 215 feet from N and 150 from W line W. T. Waggoner B lease, section 14 HT&B Ry survey abstract 505, to start October 9 to drill 1890 feet. Leidecker & Cory, well No. 1, 150 feet from S and W lines R. S. Allen lease, block 44 abstract 255 WVFL survey, to start October 14 to drill 700 feet. Griswold Oil Corp., well No. 14, 300 feet NE of well No. 10, Burnett & Loyd lease, section 6 HT&B Ry. survey, to start October 9 to drill 2000 feet; Same lease, date and depth, well No. 15, 150 feet from W and S lines. Shamrock Oil Co., well No. 9, 150 feet from E and 600 feet from N line W. T. Waggoner lease, 42 acres out of A. Gibson survey, to start October 12 to drill 1500 feet. Gulf Prod. Co., well No. A-5, 164 N of S line and 450 E of W line J. D. Melton lease, GC&SF Ry. survey No. 2, abstract 758, to start October 11 to drill 1950 feet. W. J. Green et al, well No. 7, 150 feet from S and W lines Beaver Electra lease, section 11 HT&B Ry. survey, to start October 20 to drill 1600 feet. W. J. Green, well No. 2, 50 feet from N line 450 feet from W line Beaver Electra lease, section 11 HT&B Ry. survey started August 15. J. A. Moore, well No. 5, 150 feet from E and S lines W. T. Waggoner lease, section 14 HT&B Ry. survey, to start October 17 to drill 2000 feet. The Texas Co., well No. 243, 150 feet from S line, 2000 feet west of No. 141, W. T. Waggoner lease, N. B. Meade survey, abstract 533, to start October 10 to drill 2000 feet. A. D. Robinson, well No. 1, 150 feet from S and E lines G. P. Mitcham lease, section 10 HT&B Ry survey to start October 20 to drill 1630 ft. Hockaday & Shaw, well No. 3, 637 feet from W and 200 feet from S line W. T. Waggoner lease, section 24 block 5 H&TC Ry. survey, to start October 12 to drill 2000 feet. Pathfinder Syndicate, well No. 6, 150 feet from E line 50 feet S of well No. 5 Burnett & Loyd lease, section 5 HT&B Ry. survey, to start October 18 to drill 500 feet. The Camp Oil & Gas Co., well No. 3-A, 150 feet from S and 450 feet from W lines L. P. Douglass lease, section 11 HT&B Ry. survey, to start October 16 to drill 1050 feet. W. I. Sims, well No. 10, 150 feet from W line, 300 feet N of No. 9, S. B. Burnett lease, section 5 HT&B Ry. survey, started September 9 to drill 700 feet. J. R. Suthern, well No. 1, 150 feet from N and W lines W. T. Waggoner lease, section 34 block 5 H&TC Ry. survey, started July 19 to drill 2000 feet. W. K. Clayton, well No. 5, 150 feet from E 525 feet from S line J. A. Kemp lease, Cowherd Bros. sub-div., to start October 16 to drill 800 feet. Carter Petroleum Co., well No. 2, 150 feet from S and 450 feet from W line J. A. Fisher lease, section 15 H&GN Ry. survey, to start October 17 to drill 2000 ft.

Wilbarger County—Mutual Gas & Oil Co., well No. 1, 150 feet from N and 450 feet from E line W. T. Waggoner lease, section 36 block 2 H&TC Ry. survey, to start October 12 to drill 600 feet.

Young County—Ralco Oil Co., well No. 9, 185 feet from S and 150 feet from E lines J. A. Driver lease, J. W. Casey survey, to start October 9 to drill 4000 ft.

PRAIRIE OFFICIALS SEE TEAPOT DOME COUNTRY.

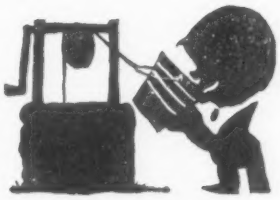
Casper, Wyo., Oct. 14.—A party of officials of the Prairie Oil and Gas and the Prairie Pipe Line Companies from Independence, Kansas, and Tulsa, Okla., have completed a tour of the Salt Creek and Teapot Dome fields this week. The officials include Nelson K. Moody and W. S. Fitzpatrick, vice presidents, of Independence and Dana H. Kelsey of Tulsa.

The Prairie does not operate in the Rocky Mountain section under their own name but through the Kasoming Oil Company, which is controlled by the Prairie Interests. J. B. Hazlett of the Kasoming accompanied the Prairie officials on their tour through this section.

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

All the Oil Producing News



Well Served

Easy to find, easy to read, complete, authentic and reliable. Worth many times the cost of

Only $1.00 PER YEAR

Less than 2 cents per week

The coupon is for your convenience.

USE IT NOW!

THE OIL WEEKLY

P. O. Box 1307 Houston, Texas

Enter my name for one year's subscription to The OIL WEEKLY, for which you will find enclosed check for $1, as payment in full.

Name .....

Street and No. .....

City and State .....

Please check below branch of industry engaged in

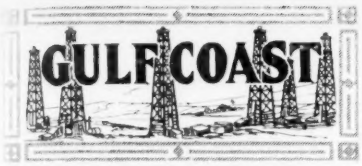
Producing Executive △ Field Man △ Pipe Line △

10-21-22

A Pleased Reader

H. G. Loop, secretary-treasurer of the Seattle El Dorado Oil Company, Seattle, Washington, writes as follows:

"I have taken your magazine for years and consider it the BEST PUBLICATION OF ITS KIND in the United States, and the Fifth Statistical number should be read by every oil producer in the country."



TEXAS GULF COAST COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Orange—		
Sun Co. Minor 1, wo	160	3590
West Columbia—		
Hyde Prod. Co. Sun-Leggett 4	*	762
Humble Oil & Ref. Co. Wilson 1	*	3520
Goose Creek—		
Gulf Prod. Co.:		
Isenhour 6	20	4800
H. Smith 3	150	2200
Dayton—		
Sapp et al Peterson 1	*	4200
Barbers Hill—		
Mills Bennett Chambers County 2	*	2800
Blue Ridge—		
Gulf Prod Co.:		
West Schenck 3	3500	3900
Humble—		
Crown Oil & Ref. Co.'s Herman 62	*	1152
Damon Mound—		
Sinclair Oil & Gas Co. Masterson 15	50	2762
Hull—		
Humble Oil & Ref. Co. Taylor 2	*	1045
Gulf Prod. Co. Hannah 3	4300	1700
Yount Lee Oil Co. Stengler 3	200	3100

HUMBLE PRODUCTION

Houston, Texas, Oct. 16.—The average daily production of the Humble field for the past week was about as fololws:

	Barrels
The Texas Company	5,505
Galena Signal Oil Company	1,270
Invincible Oil Company	265
Cezeaux & Martin	250
Humble Oil & Refining Company	200
Southern Petroleum Company	150
Crown Oil & Refining Company	110
Trinity Oil Corporation	50
Gulf Coast Oil Corporation	40
Bradley Brothers	25
Miscelalneous	650
Total	8,515
Last week	7,150

HUMBLE DRILLING REPORT

The Texas Co.'s Stevenson 26, preparing to pump 2985 ft; Stevenson 23, set packer and plug at 2015 ft, td 2715 ft; Landslide 236, bailing 2655 ft; Landslide 237, sdtr 2360 ft; Koehler 32, set packer and preparing to blow 3300 ft, td 5050 ft; Koehler 33, rig.

Crown Oil & Ref. Co.'s Herman 63, lcn.

BLUE RIDGE DRILLING REPORT.

Neils Esperson's Ewing 1, dr 5265 ft. Sinclair Oil & Gas Co.'s Lee Bashara 1, dr 3640 ft.

The Texas Co.'s Robinson 9 wo cored and showed oil at 3580 ft.

SPINDLE TOP DRILLING REPORT.

Amerada Pet. Corp.'s McFadden 1, dr 3760 ft.

Big Well at Blue Ridge May Revive Hopes for Black Sheep of Gulf Coast

HOUSTON, TEXAS, Oct. 17.—With additional hopes offered the Blue Ridge field by an unusually large producer completed early this week and the rapid fire action of developments in the Hull field of Liberty County, the past week in the Texas Gulf Coast district was one of the most interesting from a field standpoint yet experienced.

The Gulf Production Company early Sunday morning brought in No. 3 West Schenck on the south side of the dome at Blue Ridge for an initial production of 3500 barrels of pipe line oil through a 34-inch choker at a total depth of 3900 feet. The new well is one of the best to be completed in the field and hopes are held that developments on this side of the field will yet be of such extent as to justify past operation. The Blue Ridge field has been the black sheep of the Coastal country.

The West Schenck well offsets the same company's 5 Luscher, which was completed in July for an initial production of 1800 barrels of 26 gravity oil. The well at last reports is still holding up around 400 barrels. These indications would lead to the belief that even yet a profitable production may be developed in the field.

At present no other tests are being drilled in the immediate vicinity of the big producer. The Gulf and Texas Companies are the only large concerns operating in the field and their work has been cut to a minimum.

At Hull the big developments of the week were centered on the shallow sand production in the northwestern part of the field. The Gulf Production Company's No. 3 Hannah found the sand at 1700 feet Sunday and started off at the rate of 4300 barrels a day. The well maintained this production for one day and during the second 24 hours dropped to 3750 barrels. The new producer is by far the best well completed in the field. The same company's Hannah 2 is in this vicinity and was completed several weeks back for 2000 barrels in the shallow pay.

The additional production added by the Gulf well together with that recently uncovered in the field has given the district a substantial lead over other coastal fields in daily output and should wells now drilling equal past results, the field has a good chance of breaking production records for the district. The gross output of the field on Monday was estimated at 29,000 barrels.

Tuesday morning the Humble Oil and Refining Company completed another good well in the Liberty County field for an initial production of 300 barrels from 3530 feet. Several other wells were also reported in the sand and were expected to be producing by the end of the week.

Magnolia Completes First Well in Webb County

Dallas, Texas, Oct. 17.—Following the completion of its first oil producer last week with an initial production of 125 barrels at 1628 feet in the Mirando field in Webb County near the town of Torrecillas, the Magnolia Petroleum Company has announced that the necessary storage facilities, gathering lines and a loading rack will be erected immediately to transport its production from the field via tank cars. It is also expected that the company will be in the market for a certain amount of crude oil produced by other operators in the field when handling facilities are completed.

Materials have already been purchased for one 55,000 barrels capacity tank, loading rack and a fire proof warehouse, which are to be erected near the first producer on the Garcia ranch, while a number of water wells are to be drilled near the town of Torrecillas to supply boiler water for other tests that will be drilled shortly. Indications are that The Magnolia Petroleum Company expects to commence development of its holding in the Laredo district on a large scale in the near future, and the possibility of this company purchasing crude from other operators is of particular interest. The greater part of the oil produced in this district has been sold direct to the consumer for fuel oil without running through refining and skimming plants.

SOUR LAKE DRILLING REPORT.

The Texas Co.'s Fee 247, dr 2150 ft; Fee 296, bailing 2560 ft. Gulf Prod. Co.'s Tarver 51, dr 2100 ft.

WEST COLUMBIA PRODUCTION

Houston, Texas, Oct. 16.—The daily average production of the West Columbia field for the past week was about as follows:

	Barrels
The Texas Company	19,175
Humble Oil & Ref. Company	5,000
Gulf Prod. Company	1,250
Hyde Prod. Company	700
The Sun Company	350
Crown Oil & Ref. Company	200
Southern Pet. Company	80
United Dev. & Drlg. Company	150
Monarch-Stribbling	65
Total	26,820
Last Week	27,610

WEST COLUMBIA DRILLING REPORT

The Texas Co.'s Hogg 31, fsh 2985 ft; Hogg 48, sd 4160 ft; Hogg 71, sd 3740 ft; Hogg 74, sd 4480 ft; Hogg 78, sdtr 2875 to 2935 ft, td 3500 ft; Abrams 8, cored 3850 ft; Abrams 9, set cas 3900 ft; Abrams 10, dr 2595 ft.

Humble Oil & Ref. Co.'s Japhet 8, wo sdtr 2390 ft; Japhet 34, sdtr 3045 ft; Badge 2, dk; P and L, 11, dk; Wilson 2, lcn; Melgard 4, dk.

Crown Oil & Ref. Co.'s Melgard 2-A, dr 3550 ft; Olchewski 1-A, dr 2145 ft.

Helm et al's 2, bailing 3450 ft.

Atlantic Oil Co.'s Wilson 1, sdtr 2610 ft.

Gulf Prod. Co.'s Eyres 3, rig up to go deeper.

Carnahan No. 5 in Schott Pool Flowing Close to 800 Barrels

LAREDO, TEXAS, Oct. 16.—The next day was Friday the 13th but it didn't make any difference to the Carnahan people who brought in their No. 5 Thursday for 800 barrels. It is a flowing well, one of the best in the Laredo territory and may do 1000 barrels or better eventually with careful handling. It is one of the reasons why oil men are predicting an immense field in this region.

Clint Chenault, field superintendent, is nursing this well along in fine shape and proposes to make it the banner well of the pool if possible. This makes the second flowing well he hasput on the map down here, the No. 4 also producing without pumping.

The Paulson's Pinkston 1, Aviators pool is also in with around 300 barrels production. It may do better when thoroughly cleaned out. It is the largest producer outside of the proven area of the Schott pool in the vicinity of Mirando City.

Mexican Oil Co.'s 1, offsetting Killam-Condren, Mirando pool, Zapata County, came in during the week with average production.

Cole 2, near Bruni, which tested a sand at 1650 feet decided to continue drilling and is below 2200 feet this week.

Just at the outskirts of Laredo on the Wormser ranch, the Wormser 1 is setting and cementing at 2100 feet. Gas and oil showings indicate production and it will drill in and test out in about ten days. It is the opinion of some operators that the oil will be found right in Laredo, vastly extending the producing territory.

The Magnolia Petroleum Company is said to have closed a deal with the Tex-Mex Railroad for a 22-car siding and spur for a loading rack midway between Mirando City and Torrecillas where the Magnolia is making headquarters. It is said here the Magnolia is preparing to put in 55,000-barrel steel storage on top of a hill 60 feet above their lease.

MIRANDO COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Webb County—		
Carnahan Prod. & Ref. Co.'s Garcia 5	800	....
Paulson et al's Pinkston 1	300	....
Zapata County—		
Mexican Oil Co.'s No. 1	25	....

MIRANDO DRILLING REPORT

WEBB COUNTY—A. D. J. Synd.'s pratt 2, dr 500 ft; 3, spudded in. Big Bear Oil Co.'s Garcia 1, dr. Burton-Gunn Garcia 1, set casing. Brennan & Leonard's 1, rigging up. Butler Oil Co.'s Garcia 1, spuded in. Carolina-Texas Oil Co.'s Barnsley 5, dr 1000 ft. Carnahan Prod. Co.'s Garcia 5, dr; 6, to spud in. Cole Pet. Co.'s Grant 2, dr 2000 ft. Dixie Oil Co.'s Brackenridge 1, dr 1609 ft. Forrester Oil Co.'s Forrester 1, dr 1200 ft. Harris et al Welhausen 1, dr 800 ft. Hood Hill et al Ojuelos 1, dr. B. Ross Jones 1, sd 1420 ft; 2, sd 1330 ft. Kosmos Oil Co.'s Garcia 1, sd for water. Leaseholders Oil Co.'s Gates 1, dr 2000 ft; 2, dr 1000 ft. M. V. B. Oil Co.'s 1, dr. McKenzie et al Coleman 1, sd. Mop-Up Oil Co.'s Ochoa 1, setting casing. Magnolia Oil Co.'s Los Ojuelos 1, casing set at 1570 ft. Mirando-Texas Co.'s Garcia 1, dr 1660 ft. Mirando Prod. Co.'s Garcia 1, testing; 2, dr. Nuevo Oil Co.'s Reiser 1, dr 1965 ft. Noret Oil Co.'s 1, dr. Olson Oil Co.'s Boyd 3, dr. W. C. Poulton Edgington-Puig 1, reported million cubic foot gasser. Pinkston et al Puig 1, dr 1590 ft. Porcion Oil Co.'s Gonzales 1, dr 1800 ft. Rincon Pet. Co.'s 1, dr 1900 ft. Ross et al Killam 1, dr 1900 ft; 2, casing set; 3, dr 300 ft. Sure-Shot Pet. Co.'s 1, waiting on standard rig at 1400 ft. Shasta Oil Co.'s Schoot 1, dr. South Plains Oil & Gas Co.'s Coffield 1, cemented; Moon 1, dr 2000 ft; Wormser 1, set casing 2204 ft; Brackenridge 4, swabbing. Sacramento Rio Grande Prod. Co.'s Hammer 1, testing at 1400 ft. Seacord Oil Co.'s Dillard 1, sd. Webber Oil Co.'s Holbein, 2 dr below 2500 ft. Witherspoon Oil Co.'s Garcia 3, reported 3,000,000 cubic ft gasser. Zapata-Memphis Co.'s 1, spudded in.

ZAPATA COUNTY—Community Oil Co.'s Haynes 1, dr below 1100 ft. Kanoka Oil Co.'s Garcia 3, sd. Killam-Condren 5, no report. Magnolia Oil Co.'s Garcia 1, dr. Ohio Fuel Oil Co.'s Allen 1, lcn. Thiac & Green's Haynes 1, dr. Texas-Mexican Oil Co.'s Garcia 1, sd.

SOMERSET COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Grayburg Oil Co. Ed Wells 1	5	....
Ernst 20	5	....
Muennik 9	5	....
Hartung B-8	5	....
Schmidt 17	5	....
G. W. Carruthers 22	5	....
Carruthers 12	5	....
Gulf Prod. Co. Gulf Fee 4	10	....
Witherspoon Oil Co. Ricks 3	5	....

SOMERSET FIELD DRILLING REPORT

All British Oil Co.'s Kay 6, dr in 1200 ft.

Blue Bonnet Pet. Co.'s Tootskie 14, dr 400 ft. Beaucamp Pet. Co.'s Tuerpe 2, rigging up.

Duffy, Delaven & Perrenot's Dobrowlski 2, lcn; Nuckolls 1, dr 800 ft.

Empire Fuel & Gas Co.'s Surtees 5, cemented.

Fulks Oil Co.'s Edwards 4, cemented.

Grayburg Oil Co.'s Hartung A-8, bailing; Ernst 19, bailing; 21, rigging up; 22, dk; 10, rigging up; 11, dk; L. F. Heickman 6, bailing 1778 ft; 7 and 8, dks; 9 and 10, dks; 11, dr 1200 ft; Shaw 11, cemented 1350 ft; Byrom 2, bailing; 3, rigging up; 18, rigging up; 19, dk; 23 and 25, dks; 6 D. Heickman, dk; 7, dr 1000 ft; 8, dk; McCain 3, dr 300 ft; Wren Carruthers 2, bailing 1850 ft.

Gulf Prod. Co.'s Fee 5, dr in. Glasscock Leasing Synd.'s Klemcke 11, rigging up; 12, dk.

Helvetia Copper Co.'s Knight 1, dr in. Hobson & Voorhees Surtees 4, dr 200 ft. Johnson Bros. Nestroy 5, bailing; 6, dr 350 ft.

Ed Leach et al's Carruthers 1, sd; 2, lcn. Lain Oil Co.'s Seffell 2, cemented.

Martin Bros. Lambert 2, bailing. Marathon Oil Co.'s Brown 7, cemented. McClure et al's Eggers 8, bailing; 6 Carruthers, rigging up.

New England & Texas Oil & Ref. Co.'s Smith 2, dk.

Ohio-Somerset Oil Co.'s Avant 8, dr 1100 ft.

Petroleum Venture Co.'s Garnand-Boynton 2, bailing. Pioneer Oil & Gas Co.'s Ernst 6, cemented.

Bashara et al's Swearingen 1, dr 750 ft. Richards et al Tuerpe 1, dk.

Somerset Crude Oil & Ref. Co.'s Schmidt 4, cemented. Somerset Mission Oil Co.'s Carruthers 5, lcn. Southwestern Prod. Synd.'s Carruthers 2, dr in. Schimmel Oil Co.'s Miller 3, bailing; 4, spudded in. J. S. Suttle Dillan 1, rigging up.

Val Verde Oil Co.'s Long 19, bailing; 20, lcn.

Witherspoon Oil Co.'s Ricks 4, rigging up.

GOOSE CREEK PRODUCTION

Houston, Texas, Oct. 16.—The daily average production of the Goose Creek field for the past week was distributed about as folows:

	Barrels
Gulf Production Company	7,520
Humble Oil & Refining Company	6,200
Crown Oil & Refining Company	485
Gulf Coast Oil Company	285
The Sun Company	325
Turnbow Oil Company	300
C. B. Japhet Oil Company	100
Butler Perryman	1,000
Miscellaneous	70
Total	16,285
Last week	15,325

GOOSE CREEK DRILLING REPORT

Humble Oil & Ref. Co.'s Gaillard 49, dk; Gaillard 50, putting on beam 1860 ft; Smith-Simms 33, sd 4110 ft; Smith-Simms 43, sd 4180 ft; Smith-Simms 46, setting screen 1455 ft; Isenhour 1-A, dr 4565 ft; Isenhour 2-A, dr 4195 ft; Isenhour 1-B, tested sw 4865 ft; Schilling 32, washing out at 4400 ft; Sweet 25, dr 4075 ft; Beaumont State 10, dr 4225 ft; Harrell 2, dr 4278 ft.

Gulf Coast-Crown Oil's Gaillard 14, dr 1983 ft; Gaillard 36, sd 3375 ft; Gaillard 37, fsh 1745 ft.

Hiegene Oil Corp.'s Scorrega 1, sd 3965 ft; Scorrega 2, rigging to go deeper.

Turnbow & Pierman's Dolan 6, dr 2700 ft.

Crown Oil & Ref. Co.'s Gillette 6, dr 1450 ft.

Gulf Prod. Co.'s Chapman Bryan 4, dr 3840 ft; Gaillard 15, dr 4500 ft; Gaillard 16, dr 3350 ft; Hirsch State 1, dr 2810 ft; C. Gaillard A-9, wo, dr 1520 ft; Black Duck Bay State 1, dr 4500 ft.

Sun Co.'s Smith 6, bailing 2875 ft.

Ship Channel Oil Co.'s Atkinson 1, pipe stuck 1720 ft.

J. R. Copeland Oil Co.'s Spillman Isle 1, dr 1650 ft.

Bay front at Goose Creek oil field in Texas Gulf Coast. View furnished by L. Lenz, with Sinclair Oil and Gas Co., Houston

No Shut Down in Operations Under Consideration in Somerset Field

SAN ANTONIO, TEXAS, Oct. 16.—There will be no suspension or diminution of drilling in the Somerset field, operators declared, despite the fact that there seems to be a tendency to restrict output as much as possible in some of the other fields. Operators in Somerset who are engaged in the largest drilling campaign the shallow pool has ever known say they are able to market all the crude they can turn out and while they believe the prices should be better, the Somerset wells are profitable at the present market and the demand is steady. Those who attended the Mid-Continent Association meeting at Dallas say the question of restricting the output was not mentioned.

Nine new wells were added to the field last week. There were no outstanding features to any of them. The Grayburg brought in seven new wells, the Gulf Production Company completed its No. 4 fee for average production and Witherspoon brought in one well on the Ricks lease.

There were 45 wells drilling or cemented last week in Somerset and 55 rigs in the field several of which were moving and several others down. The field's production was off about 100 barrels for the week running about 3500 barrels a day. The slight decline was due to flush production which settled to average. The nine new wells will about take care of that.

MISCELLANEOUS TEXAS GULF COAST PRODUCTION

Houston, Texas, Oct. 16..—The average daily production of the Miscellaneous Texas Gulf Coast fields for the past week was distributed about as follows:

	Past Week	Prev. Week
Sour Lake	4,770	4,700
Somerset (S. A.)	3,500	3,500
Mirando (Zapata County)	3,500	3,500
Barbers Hill	2,000	2,430
Saratoga	1,720	1,710
Batson	1,165	1,200
Blue Ridge	950	975
Spindle Top	700	750
Nacogdoches	100	100
Markham	100	100
Dayton	65	65
Richmond	25	30

DAYTON DRILLING REPORT.

Humble Oil & Ref. Co.'s Pruitt 4-A, sdtr 1935 ft; Pruitt 5-A, dr 2535 ft.

North Dayton Oil Co.'s Jones 2, lcn; Grandberry 2, m 2075 ft.

Beaumont Oil Co.'s Josey 1, sd 1700 ft.

HOUSTON, TEXAS, Oct. 16.—If they can't get new extensions or big wells at Goose Creek, they go deeper and find another sand. Anyway Goose Creek furnishes enough each week to let the oil industry know that it is still on the map.

The Gulf Production Company's Isenhour 6 in the heart of the field after drilling to a total depth of 4950 feet plugged back last week to a sand encountered at 4800 feet and is making 20 barrels. With the possible exception of California, the well is the deepest producer yet found in any field in the United States. Production is coming from what is said to be a stray sand.

BATSON DRILLING REPORT

Kirby Pet. Co.'s Millhome Strip 10, gas well at 2350 ft.

PIERCE JUNCTION PRODUCTION

Houston, Texas, Oct. 16.—The average daily production of the Pierce Junction field for the past week was about as follows:

	Barrels
Gulf Production Company	810
Snowden & McSweeney	185
Humble Oil & Refining Company	200
Sun Company	100
Total	1,295
Last week	1,550

PIERCE JUNCTION DRILLING REPORT

Humble Oil & Ref. Co.'s Fitzsimmons 4, dr 2950 ft.

Sun Company's Whitehead 1, dr 3455 ft.

Texas Coast Oil Co.'s Settegast 1, bailing with small show of oil 4400 ft.

Gulf Prod. Co.'s Taylor 13, dr 3130 ft.

DAMON MOUND PRODUCTION

Houston, Texas, Oct. 16.—The daily average production of the Damon Mound field for the past week was about as follows:

	Barrels
Sinclair Oil & Gas Co.	2,500
Southern Pet. Co.	370
Humble Oil & Ref. Co.	200
Hyde Production Co.	200
Total	3,270
Last Week	3,270

DAMON MOUND DRILLING REPORT

Sinclair Oil & Gas Co.'s Bryan 27, putting on beam 3769 ft; Materson 6, dr 1505 ft; Williams 6, dr 1020 ft.

Hyde Production Co.'s Gibson 2, to perforate cas from 2870 to 2930 ft; Kittrel 1, dr 3085 ft; Wisdom 1, dr 1125 ft.

SARATOGA DRILLING REPORT.

Gulf Prod. Co.'s Mayo 1, dr 3400 ft.

Cotton Oil Co.'s Gulf 2, dr 1060 ft.

Rio Bravo Oil Co.'s 310-B, sd 400 ft.

ORANGE PRODUCTION

Houston, Texas, Oct. 16.—The daily average production of the Orange field for the past week was distributed about as follows:

	Barrels
Gulf Prod. Co.	4,800
Humble Oil & Ref. Co.	3,000
Brownie-Babbette Oil Co.	1,900
Hamilton Oil Corp.	1,460
Amerada Pet. Corp.	1,425
Edgerly Pet. Co.	990
Orange Pet. Co.	920
Atlantic Oil Company	500
Sun Company	400
Monarch Oil & Ref. Co.	275
Supreme Oil Company	175
Sinclair Oil & Gas Co.	160
Paraffin Oil Co.	105
Gulf Coast Oil Co.	90
Total	16,200
Last Week	16,200

ORANGE DRILLING REPORT

Humble Oil & Ref. Co.'s Chesson 15, lcn; Chesson 12, sd 4015 ft; Carbello 2, setting up; Winfree 7, lcn; Aaronson 2, tested sw 4570 ft.

Amerada Pet. Corp. States 3-B, fsh 4169 ft; Kishi 2, wo dr 3240 ft.

Brownie-Babbette Oil Co.'s McLean 5, dr 3435 ft; McLean 4, wo rig up 2950 ft; McLean 7, rig up to go deeper.

Edgerly Pet. Co.'s Carbello 6, wo, set screen 3330 ft.

Gulf Coast Oil Co.s Leon 4, dk.

Hamilton Oil Corp.'s Chesson 2, wo, sd, 4190 ft; Chesson 5, pumped water 4050 ft; Chesson 9, dk.

Orange Pet. Co.'s Winfree 1, wo, bailing 3150 ft; Winfree 4, wo, dr 3965 ft; Chesson 4, dr 2900 ft.

Sun Co.'s Belile 2, set screen and bailing at 4225 ft; Gunstream 3, dr 3390 ft; Kishi 1, washing to wo, 4350 ft.

Sinclair Oil & Gas Co.'s State 1-A, dr 4315 ft.

Thrift Oil Co.'s McGuire 2, wo, set strainer, 3550 ft.

Supreme Oil Co.'s Jackson 2, dr 3725 ft.

Gulf Prod. Co.'s Hager Fee 7, dr 4500 ft; Hager Fee 9, rig up; Chesson 2, m out; McGuire 1, dr 3000 ft; Hager & Moore 8, rig up.

K. Kishi & Co.'s Kishi 1, dr 1500 ft; Kishi 2, dr 2270 ft; Kishi 3, dr 1290 ft.

The Texas Co.'s Stark 1, dr 2640 ft.

BARBERS HILL DRILLING REPORT

Humble Oil & Ref. Co.'s Fee 2, lcn; Fee 3, lcn; B. & F. 1, setting up.

Mills Bennett's Japhet 2, dr 500 ft.

United Pet. Co-Oriole Synd.'s Richardson 8, dr 1450 ft.

The Texas Co.'s Scott 1, dr 3930 ft; E. Barrow 2, dk.

HULL PRODUCTION

Houston, Texas, Oct. 16.—The average daily production of the Hull field for the past week was distributed about as follows:

	Barrels
Republic Production Company	8,700
Gulf Production Company	6,000
Yount Lee Oil Company	5,600
Higgins Oil & Fuel Company	1,650
Houston Production Company	1,200
Humble Oil & Refining Company	920
Monarch Oil & Refining Company	400
F. H. Carpenter Trustee	350
Empire Gas & Fuel Company	250
The Texas Company, Royalty	135
Crown Oil & Refining Company	10
Miscellaneous	15
Total	25,730
Last week	23,250

HULL DRILLING REPORT

Empire Gas & Fuel Co.'s Barrow 2, sd 4330 ft.

F. H. Carpenter Trustee's Stengler 2, dr 3065 ft.

Gulf Prod. Co.'s Scarborough 12, rig up; Morris Phillips 15, dr 3600 ft; Morris Phillips 18, rig up; Hannah 4, dr 1150 ft; Phoenix Dev. Co. 32, dr 1410 ft.

Higgins Oil & Fuel Co.'s Taylor 1, dr 1205 ft; Merchant 3, dr 2650 ft; Merchant 4, dk.

Houston Prod. Co.'s Abel 4, fsh 1135 ft; Abel 5, dr 1190 ft.

Humble Oil & Ref. Co.'s Hook Spells 10, lcn; Guedry 15 sdtr 2910 ft; Taylor 3, lcn; Crosbie 1, dr 1150 ft; Merchant 1, testing at 3535 ft; Marshall 1, dr 1025 ft; Abel 2-A, dr 1025 ft; Abel 3-B, testing 1500 ft; Abel 4-B, dk; Apel 5-B, dr 1000 ft.

Link Oil Corp.'s Rivers 1, dr 3025 ft.

Republic Prod. Co.'s Dolbear 56, dk; David Hanna 5, dr 2575 ft; David Hanna 4, dr 3190 ft.

Yount Lee Oil Co.'s Stengler 4, dr 3260 ft.

Fusom Dev. Co.'s Pickett 1, sd 1555 ft.

Monarch Oil & Ref. Co.'s Abel 1, dr 2145 ft; Abel 2, dr 605 ft.

F. W. & P. Oil Co.'s Carr 5, dk.

Abercrombie et al's Marshall 50 acres 1, dr 550 ft.

STRATTON RIDGE DRILLING REPORT.

Freeport Sulphur Co.'s Dannenbaum-Tolar 10, dr 2430 ft; Dannenbaum-Tolar 9, wo. m out 4368 ft; Seaburn 2, dr 1720 ft.

Fairchild Oil Co.'s Boggs 1, changing rig td 4200 ft.

Empire Gas & Fuel Co.'s Wilson 1, dr out screen 4040 ft.

TULSA BOILER AND SHEET IRON WORKS
ENGINEERS MANUFACTURERS AND ERECTORS
OIL REFINERY WORK STORAGE TANKS BOILERS SUPPLIES AND REPAIRS
STEEL PLATE CONSTRUCTION
STACKS RIVETED PIPING PRESSURE TANKS, ETC
BOX 1926 - TULSA, OKLA.
PIONEERS IN MID-CONTINENT FIELD SPECIALIZING ON
CRUDE STILLS, AGITATORS, COND. BOXES
VAPOR TOWERS AND ALL OTHER
REFINERY TANKAGE

August Production for Roumania 112,872 Tons

Washington, D. C., Oct. 16.—Roumanian production of crude oil for the month of August was approximately 112,500 tons according to figures compiled by the Moniteur du Petrole. Production by companies in the country for August follows, figures given in tons:

	August	July
Astra Romana	33,210	32,542
Romano-Americana	16,890	18,145
Steaua Romana	20,754	19,228
Concordia	6,910	7,553
Creditul Minier	5,324	4,308
Trajan Roum. Oil Cy., Anglo Roum. Petr. Cy., Stavropoleos Moreni Oil Propr.	3,250	5,920
The Beciu (Roum.) Oil Fields—Unirea, Colombia	9,964	8,360
Internationala	3,048	3,155
Orion	3,508	4,212
Roumanian Cons. Oil Fields, Ltd.	1,062	1,427
Chiciura Oilfields of Roumania	442	244
Aquila Franco Romana	1,027	864
I. R. D. P.	466	445
Romano-Belgiana	657	763
Soc. de Petr. de Bustenari	....	456
Petrol Block	395	344
British Colonial Petr. Corp.	447	578
Kern Romana, Ltd., (H. F. Drader)	98	158
Generala Petrolifera	....	160
Dacia Rom. Petr. Synd. (R. Van Sickle)	1,107	786
Cometa	162	188
Victoria	213	240
Roumania Petrolifera	1,604	1,885
Prahova	177	190
Soc. Francaise des Petr. de Bordeni	19	....
Petrolul	....	120
Uniunea Petrolifera	....	19
Maces	78	76
Expl. J. F. Lucey	....	185
Magda	....	....
Petrolmina	24	37
Naphtha Romana	....	....
Stella Petrolifera	70	82
Soc. Morenii	11	....
Total	110,917	112,872

Bartlesville, Okla., Oct. 17.—An outline of proposed experimental work on transmission line losses of natural gas has been prepared by R. A. Cattell, natural gas engineer of the United States Bureau of Mines and submitted to a number of engineers connected with the gas companies. Arrangements have also been made with a number of companies for the use of their lines for determining losses. A large amount of data has been obtained from companies that have made a study of line losses.

Bristow, Okla., Oct. 17.—A string of 10-inch, 40-pound casing 2363 feet long, was run and pulled in the H. F. Wilcox Oil and Gas Company's well on the Price farm, section 18-16-10, a gas well. This is the record length of 10-inch casing for Oklahoma.

Shell Union Claims Big Daily Production

Philadelphia, Pa., Oct. 16.—W. H. Allen, president of Shell Union Oil Corporation, formed some time ago from merger of Union Oil and American Royal Dutch-Shell interests, is authority for the statement that his company and subsidiaries had an average daily gross production of approximately 76,000 barrels during September. This total includes 13,000 barrels of shut-in production at Coalinga, Cal. The daily average gross production for January of this year was in the neighborhood of 37,000 barrels.

Company's production with the last two weeks has increased to about 80,000 barrels as the result of new completions of considerable proportions.

Wichita, Kans., Oct. 17.—If records in the office of the register of deeds at El Dorado are an indication, the present year is setting a new mark in activity in oil leases in Butler County. According to Miss Alice Friend, register of deeds in El Dorado, transfer fees for the first three quarters of 1922 total $6,702.15. This is only about $200 less than for the entire year of 1921, which was the largest previous twelve month period.

Headquarters of the Oklahoma Producing and Refining Corporation of America at Tulsa, Oklahoma

Attention to a Few Simple Rules in Operating Field Boilers Means Much

From the time of their purchase, steam boilers require careful supervision if loss of life and heavy property damage are to be avoided. When operated at a pressure exceeding 15 pounds absolute per square inch (which is the atmospheric pressure) a large amount of energy is generated, stored, and distributed. To control this energy requires apparatus of adequate capacity and strength, properly cared for. This article was prepared from the Safe Practices pamphlet No. 49, issued by the National Safety Council.

The boiler code of the American Society of Mechanical Engineers, which was prepared after years of work by a committee of that society in consultation with all interested parties, is recognized as the best standard on the subject.

This code is chiefly concerned with specifications for the construction of boilers and boiler parts. Interested individuals, organizations, municipalities and states were invited to participate in formulating the code so that it would be a practical code and would be universally adopted. The specifications given for materials of construction in the code are identical with, or similar to, those of the American Society for Testing Materials. The specifications for boiler plate steel were practically unanimously adopted by manufacturers of steam boilers of various types and by boiler plate manufacturers.

The code has now been adopted by 17 states and 11 cities, and has received the hearty endorsement of all organizations interested in boiler safety. The specifications and rules undoubtedly represent the best general standards that have yet been developed in boiler safety and equipment.

Ignorance and thoughtlessness on the part of boiler room attendants, as well as the lack of proper appliances, are the cause of accidents to boilers. The practices outlined in the following paragraphs should be familiar to all boiler room attendants.

1. Placing Boilers in Service. Before placing a boiler in service, whether a new boiler or one that has remained open while idle, it should be examined internally and externally to see that it is clean. Foreign matter of all kinds, whether as the result of construction or operation, should be removed.

The boiler room attendant should vent the boiler to permit the escape of air; open feed valve until the water level is between the first and second gauge cocks; start a wood fire in the furnace and nearly close the stack damper. If the boiler is a new one, or the setting is new, he should keep a light wood fire for at least two days in order to detect leaks around the doors and the setting, and to dry out the setting thoroughly. The boiler should be open to the atmosphere during this drying out process. In placing an idle boiler in service the fires should be started early enough so that ample time will be allowed to bring the pressure up to the working point by the time the boiler is required for service.

If a boiler is connected to a battery, additional precautions are necessary. When the pressure comes to within a few pounds of the header pressure, the by-pass should be opened until the pressures equalize on each side of the stop valve. This valve should then be opened. The non return valve, if one is provided, will not open until the pressures on both sides are equal. When opening the stop valve, unusual care should be exercised. The valve should be opened slowly and, if there is evidence of an unusual jar or disturbance in the boiler or steam line, it should be closed immediately, and the cause for the disturbance ascertained. To do this, it may be necessary to cool the fires.

2. Water Level. The first thing to do upon starting the operation of a boiler is to verify the water level as shown in the gauge glass. If the boiler has been quiet for some time, blow down the water column and make sure that all connections are clear by observing whether the water promptly returns to its former level. Verify this by trying the gauge cocks. Repeat this operation several times during a shift. If there is plenty of water present, and the boiler has been quiet for some time, open the blow-off valve a few moments to remove the sediment that has settled in the lower parts of the water spaces. The fires can then be unbanked and replenished.

3. Low water. When water in the boiler is found to be low, it is necessary to reduce all stresses on the boiler without sudden change of any kind. If oil or gas is used as fuel, shut off the supply. If coal is used, close the ash pit doors and shut off the mechanical draft, open the fire doors and cover the fire with a thick layer of ashes, preferably wet, or a thick layer of fresh coal. Do not do anything until the boiler has cooled off. Do not touch the safety valve or the steam outlets. Do not turn on the feed water. The first thing to do is to get the boiler cool and then find out the reason for the existence of low water.

4. Safety Valves. Safety valves should be raised carefully each day. Should they remain seated for a considerable time, the valves may become corroded and stick to their seats. In some cases dirt may collect between the coils of the springs and prevent operation.

If a boiler is equipped with more than one safety valve, all valves should be tested.

The steam gauge should be read when the valve blows, to make sure that the

(Continued on page 44)

Standard Ready to Test Two Deep Wells in Bossier Parish Field

SHREVEPORT, LA., Oct. 16.—As Louisiana operators begin the new week, all eyes are centered on the Bellevue field, in Bossier Parish, where the Standard Oil Company's two deep tests are expected to furnish the excitement for the week.

This company set and cemented a string of six-inch casing at 2540 feet in the Wyche deep test, located in the northwest corner of section 14-19-11, on October 10, for the purpose of testing a good show of light oil said to have been obtained from a total depth of 2550 feet.

Six-inch casing also was set and cemented at 2360 feet in the same company's Kendrick B-1, located in section 22-19-11, on Friday, October 13.

last week, as none of the wells shr

Webster Parish was unusually quiet last week, as none of the wells begun since the completion of Lloyd Harris' well near Sarepta had reached interesting depths. However, the Standard Oil Company, the Triangle Drilling Company, Morefield and Tanner, Palmer et al, and Raymond et al are all making good progress in their respective tests, which gives assurance that this section will soon resume its usual position as the center of interest among Louisiana wildcatters.

The Ohio Oil Company is said to be planning to lay a pipe line to convey gas from its recently completed Sexton gasser, in section 31-23-9, to the Haynesville field, where it will be used as fuel for pumping engines. Tests made last week credit this well with an initial volume of 4,000,000 cubic feet of gas per day, with a rock pressure of 1050 pounds.

Palmer et al are drilling in today on No. 1 Pinewoods Lumber Company in section 35-23-10, in which six-inch casing was set at 2565 feet. This test is located near the center of a triangle enclosing the Wise, Sexton and Jordan & Young gas wells.

It is reported that the Triangle Drilling Company's No. 1 Allen, located in section 30-22-10, about five miles southeast of the Harris well, and about the same distance southwest of the Gleason discovery well, encountered the Nacatoch sand at a level about 200 feet higher than other wells drilled in this vicinity. Eight-inch casing has been cemented at 1675 feet, presumably for the purpose of making a test in this sand.

The Invincible Oil Company (Louisiana Oil Refining Corporation) bailed salt water yesterday from its No. 1 DeMoss, in section 20-22-12, Bossier Parish, in which twelve feet of sand was being tested at a total depth of 2700 feet.

The Andores Oil Company began drilling last week in its No. 1 Bolinger, located in section 22-23-13, Bolinger Parish.

The Louisiana-Texas Community Oil Company's Hill wildcat in section 33-23-16, Caddo Parish, the depth of which is reported as 2957 feet, continues to produce oil in considerable quantities when bailed. It is said that pumping equipment will be installed on this well at once, and that a second well will be drilled on this same lease.

J. K. Wadley and M. J. Kissick have built a derrick for another wildcat to be drilled in the southeast corner of section 8-16-8, Bienville Parish. This location is five miles south of their Pearce wildcat, in section 14-17-9, Webster Parish, where they are drilling at around 2650 feet.

The El Dorado Chief Oil Company has taken over the Fawn Creek Oil Company's Kinder wildcat in section 35-22-7, which has been shut down for some time at a depth of 1493 feet. The new owners are drilling ahead at around 1600 feet.

LOUISIANA COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Haynesville Field—		
Gilliland Oil Co.'s Taylor 7, 14-23-8	5	2857
Ohio Oil Co.:		
J. R. Sherman 5, 23-23-8	200	2827
T. W. Sherman 19, 15-23-8	80	2800
T. W. Sherman 2, (Acct. 2), 24-23-8	100	2855
Smitherman & McDonald's Winn 6, 8-23-8	*	3182
Total, 5 wells	385	
Bellevue Shallow Field—		
Standard Oil Co.'s Kendrick A-2 22-19-11	‡	295
Caddo Parish—		
Eades et al's Pitt 1, 30-22-14	*	1265
Integrity Oil Corp.'s Spencer 1, 5-14-13	‡	3235
Monroe Field—		
United Oil & Gas Prod. Co.'s Eldridge 1, 27-20-5	¶13	2244

CADDO DRILLING REPORT

Alabama Pet. Co.'s Barlow 1, 5-21-15, set 4½-in 2810 ft; Ramft 1, 33-22-15, dry 1053 ft. Amerada Pet. Corp.'s Jolly 1, 27-22-15, plugging back, 3211 ft. Arkansas Natural Gas Co.'s Ardis & Lay 253, 36-22-15, dr 2325 ft. Austin Oil Co.'s Jolly 4, 21-22-15, lcn.

Belchic & Laskey's Noel 1, 25-21-15, sd 2390 ft.

Chandler & Trahan's Jolly 1, 22-22-15, set 4½-in 2887 ft.

Dixie Oil Co.'s Noel B-2, 19-21-14, set 4½-inch 2700 ft; Robertshaw 1, 13-21-15, dr 2840 ft; Robertshaw 47, 11-21-15, dr 960 ft; Robertshaw 48, 13-21-15, dr 425 ft.

Fortuna Oil Co.'s Hampton A-2, 14-21-15, dr 2450 ft; Robertshaw 11, 23-21-15, set 6-in 2668 ft; Robertshaw 16, 23-21-15, dr 2675 ft.

Gulf Ref. Co.'s Herndon 1, 13-21-15, dr 2585 ft; Lane 14, 12-12-15, testing 1575 ft; Tyson 7, 14-21-15 dr 2400 ft.

McCarty et al's Seaman-Bradford 1, 34-21-15, r 1100 ft.

Oregon P. & R. Co.'s Oden 1, 27-19-14, dr 2525 ft.

Tarver & Bashara's Bashara 6, 23-21-15, testing chalk rock. The Texas Co.'s Caddo Mineral Lands 43, 23-21-15, dr 2605 ft; Head 1, 26-21-15, sd 2444 ft; Herndon 6, 14-21-15, testing 1510 ft.

Woodbine Oil Co.'s Robertshaw 11, 24-21-15, dr 2530 ft. Woodley Pet. Co.'s Noel 5, 25-21-15, testing chalk rock 1500 ft.

For All Storage Requirements

Maloney Tanks are adaptable for crude, gasoline or water storage and meet every condition—whether for industrial, refining or field use. Tight deck construction.

Accurate, durable and dependable, Maloney Tanks prevent losses from evaporation and offer full value to purchasers. Ask those who use them.

Sizes 60-Bbl. to 2000-Bbl., Inclusive

Ask For Catalog C

MALONEY PATENTED BOLTED COPPER-STEEL TANKS

Maloney Tank Manufacturing Co.

Tulsa, U. S. A.

LOUISIANA FIELDS

HAYNESVILLE PRODUCTION

Shreveport, La., Oct. 16.—The average daily production of the Haynesville field in Claiborne Parish for the past week was about as follows:

	Barrels
Ohio Oil Company	24,875
Louisiana Oil & Ref. Corp.	6,625
Gilliland Oil Company	6,140
Roxana Pet. Corp.	2,000
Standard Oil Company	1,960
Smitherman & McDonald	1,715
Gulf Refining Co.	1,230
Amerada Petroleum Corp.	1,160
Simms Oil Company	1,000
National Refining Co.	960
Humble Oil & Refining Co.	700
Palmer Trust	660
LeVert Oil & Gas Co.	500
Ziegen et al	500
Transcontinental Oil Co.	400
W. H. C. Oil Co.	395
D. C. Richardson	390
Belchic & Laskey	370
Houston Oil Company	520
Owl Oil Company	340
V. K. F. Drilling Co.	210
Miscellaneous	975
Total	53,625
Last week	55,550

HOMER PRODUCTION

Shreveport, La., Oct. 16.—The average daily production for the Homer field in Claiborne Parish for the past week was divided approximately as follows:

	Barrels
Standard Oil Company	4,145
Gulf Refining Company	2,115
Gilliland Oil Company	2,200
White Oil Corporation	1,200
Arkansas Natural Gas Co.	710
Arkansas-Invincible Oil Corp.	680
The Texas Company	615
Simms Oil Company	600
United Okla. Oil & Gas Corp.	455
Louisiana Oil Refining Corp.	365
Sinclair Oil Company	305
Miscellaneous	475
Total	13,865
Last week	14,475

BELLEVUE SHALLOW FIELD

Shreveport, La., Oct. 16.—The average daily production in the Bellevue Shallow Field in Bossier Parish for the past week was divided approximately as follows:

	Barrels
Standard Oil Company	1,060
Gulf Refining Company	1,025
R. L. Autrey	955
Louisiana Oil Refining Corp.	660
Humble Oil & Refining Co.	600
R. O. Roy & Co.	380
Chandler & Collins	130
Sun Company	45
Total	4,855
Last week	5,320

ELM GROVE PRODUCTION

Elm Grove	925

SOUTH LOUISIANA PRODUCTION.

Lake Charles, La., Oct. 16.—The average daily production of the South Louisiana fields for the past week was divided about as follows:

	Past Week	Prev. Week
Vinton	4,475	4,430
Evangeline	560	520
Edgerly	375	360
Anse La Butte	90	115

SOUTH LOUISIANA COMPLETIONS

Company, well, location	Initial Production Bbls.	Depth
Vinton—		
Gulf Coast Oil Corp's Vincent 7	60	2725
Evangeline—		
Sucess Prod. Co.'s Fontenit 2, wo	60	1810

SOUTH LOUISIANA DRILLING REPORT.

Vinton

Gulf Ref. Co.'s Star Vincent 26, dr 3150 ft.

Edgerly Pet. Co.'s Lasso 1, dr 3045 ft.

Just Oil & Ref. Co.'s Rodgers 1, sd 3975 ft.

Vinton Pet. Co.'s Gray 40 acres, wo dr 4090 ft.

Tanner Oil Co.'s Vincent 1, fsh 4105 ft.

The Texas Co.'s Gray 17, dr 2300 ft.

Russ Syndicate's Green acre 5, m 1850 ft.

Edgerly

Coastal Pet. Co.'s Hunter 1, dr 2825 ft.

Gulf. Ref. Co.'s Bright Penn 38, dr 4410 ft.

Evangeline

Hansierre et al's 1, sd 2005 ft.

C. O. & F. Oil Co.'s Fee 86, dr 3425 ft.

St. Martinsville

Gulf Ref. Co.'s Levert St. John 1, dr 1800 ft.

Bouillon Bayou

Gulf Ref. Co.'s Hope Oil Co. 3, sdtr 600 ft.

BULL BAYOU PRODUCTION

Shreveport, La., Oct. 16.—The average daily production for the Bull Bayou field for the last week was approximately as follows:

	Barrels
Gulf Refining Company	1,720
The Texas Company	1,060
Fortuna Oil Company	1,000
Continental Asphalt Company	540
Standard Oil Company	180
Sinclair Oil Corporation	95
Simms Oil Company	20
Miscellaneous	1,585
Total	6,200
Last week	6,325

CADDO PRODUCTION

Shreveport, La., Oct. 16.—The average daily production for Caddo Parish last week was approximately as follows:

	Barrels
Gulf Refining Company	2,860
Standard Oil Company	1,810
The Texas Company	1,655
Dixie Oil Company	1,315
Fortuna Oil Company	450
Louisiana Oil Refining Corp.	250
Caddo Central Oil & Ref. Co.	245
White Oil Corporation	55
Miscellaneous	2,885
Total	11,525
Last week	11,585

BELLEVUE SHALLOW FIELD DRILLING REPORT

Gulf Ref. Co.'s Bliss & Weatherbee A-11, 15-19-11, dr 65 ft.

Humble O. & R. Co.'s Bliss & Weatherbee B-3, 14-19-11, dk; Bliss & Weatherbee B-4, dr 285 ft.

Louisiana Oil Ref. Corp.'s Bodcau A-9, 15-19-11, sd 1080 ft.

R. O. Roy & Co.'s Scanlan 7, 8 and 9, 15-19-11, lcns.

Standard Oil Co.'s Kendrick B-11, 22-19-11, setting 6-in 2362 ft; McKinney 1, 14-19-11, dk; Wyche 2, 14-19-11, set 6-in 2541 ft. Sun Co.'s Smith 1, 26-19-11, wosr 332 ft.

ELM GROVE DISTRICT DRILLING REPORT

Gulf Ref. Co.'s Hodges 11, 24-16-12, dr 3990 ft.

Louisiana Gas & Fuel Co.'s Hodges B-3, 24-16-12, set 6-in 789 ft. Lakeside O. & G. Co.'s Fee 1, 17-16-10, dr 2215 ft.

R. O. Roy & Co.'s Caplis 6, 23-16-12, sd 1558 ft.

The Texas Co.'s Caplis 10, 24-16-12, wosr 1552 ft; Caplis 11, set 6⅝-in 1527 ft.

MONROE DISTRICT DRILLING REPORT

Ouachita Parish

Atlas Oil Co.'s West Virginia 1, 34-19-5e, fsh 2830 ft.

Fortuna Oil Co.'s Morrison 1, 2-19-4, dr 110 ft.

Huber Carbon Co.'s Haire 1, 6-18-5, set 8-in 970 ft.

Montgomery Drilling Co.'s Miller 1, 19-18-5, sw 2395 ft.

Nelson Carbon Co.'s Fee 7, 20-19-5, rig.

Ouachita Natural Gas Co.'s Walker 2, 32-19-5, dr 795 ft.

Potts et al's Stanley 1, 32-19-5, dr 1740 ft.

Southern Carbon Co.'s Fee 15, 21-19-5, rig; Fee 16, dr 200 ft.

The Texas Co.'s Gibbs 1, 29-19-5, dk; O'Neill 1, 33-19-5, dr 1575 ft. Texas-Louisiana Carbon Co.'s Fee 1, 4-19-5, dr 350 ft.

Morehouse Parish

Mohawk Oil Co.'s Marlett 1, 19-20-6, set 8-in 1000 ft.

Richland O. & G. Co.'s West 1, 10-18-6, set 8-in 1643 ft.

Southern Carbon Co.'s Fisher 3, 33-21-5, dr 1600 ft.

The Texas Co.'s Tensas 3, 10-20-4, dr 2080 ft.

United O. & G. Prod. Co.'s Fee 1, 3-19-5, set 10-in 200 ft.

HAYNESVILLE DRILLING REPORT

Gilliland Oil Co.'s T. W. Sherman 5 and 6, 10 dks.

Louisiana Oil Ref. Corp.'s Beene A-3, 13, dr 2200 ft; T. W. Sherman A-4, 10, dr 2715 ft.

Ohio Oil Co.'s Camp 12, 15, set 6-in 2758 ft; Camp 13, set 6-in 2755 ft; Camp 3 (Acct. 2), 24, wosr 2835 ft; Garrett et al 20, 24, set 6-in 2755 ft; Garrett et al 21, dk timbers; Garrett et al 22, set 6-in 2744 ft; Garrett et al 23, dk; Hunt 18, 16, dr 2800 ft; Hunt 19, dk; Hunt 20 and 21, lcns; Sherman 6, 23, wosr 2843 ft; T. W. Sherman 15, 16, testing 2808 ft; T. W. Sherman 16, dk; T. W. Sherman 17, lcn.

Smitherman & McDonald's Winn 3, 8, dk; Winn 4, testing 2803 ft. Standard Oil Co.'s Aiken 5, 26, set 6-in 2785 ft.

STANDARD

Seamless

Upset

Rotary

Drill

Pipe

In Stock at Warhouses of

REPUBLIC SUPPLY CO.

CONTINENTAL SUPPLY CO.

FRICK-REID CO.

California:

ASSOCIATED SUPPLY CO.

REPUBLIC SUPPLY CO.

Standard Seamless Tube Co.

Pittsburgh, Pa.

ATTENTION TO A FEW SIMPLE RULES IN OPERATING FIELD BOILERS MEANS MUCH

(Continued from Page 41)

valve is blowing at the pressure for which it is set. If there is a difference of more than 10 per cent (in either direction) between the pressure on the gauge and the pressure the valve is set to blow, the gauge should be tested and recalibrated if necessary, or the springs in the valve should be renewed. If the boiler is insured, the insurance company should be promptly notified and their recommendations followed. Make no important changes without their authority, as to do so may impair the insurance contract. City and state laws often prohibit changing safety valve settings without permission.

5. Blow-offs. The bottom blow-off should be opened for a short time before the boilers are started and after the pressure has been reduced. Valves should be opened and closed very slowly and carefully, so as to avoid shock to the blow-off pipes or connections. The usual length of time which the valves should be open ranges from one half to one and one-half minutes. If a valve and cock are provided, operate by opening the valve first; and when closing, close the cock first. This method of operation will keep the valves tight and in good condition for a long period of time, for the cock performs the actual blowing down operation.

In using blow-off valves, care should be taken that the water be kept within the limits of the gauge glass at all times.

6. Leaks. Before placing boilers in service after being fired, and at the end of the shift, they should be examined for leaks. The fire sheet should be carefully examined for leaks, bulges, or sags. If the boiler is insured, notify the insurance company or inspecting authority upon discovery of any of these defects. Never permit a leak above the water line to go until the plate, nipple or other part is seriously cut by the escaping steam.

7. Repairs. All leaks and defects should be repaired as soon as it is possible, but if these leaks are in parts of the boiler that are under pressure, on no account should repairs be attempted until the pressure has been taken off. This applies with equal force to steam piping and attachments. Calking the shell or other parts, expending the tube ends, or tightening gaskets on manhole and handhole plates should never be attempted while the boiler is under pressure. It is essential to safety that the boiler be shut down to do this work.

8. Cooling. The boiler should not be cooled rapidly, as the sudden contraction is detrimental to the joints and material. When about to prepare a boiler for cleaning or inspection, if time permits, the fire should be shut off and all doors and openings about the furnace or setting should be kept closed. After the boiler stops steaming, the main stop valve in the steam line should be closed. The pressure on the boiler should not be reduced rapidly. The water should not be let out of a boiler until the brickwork and walls are thoroughly cooled. Otherwise the hot brickwork may cause the empty boiler to be overheated. Boilers should not be emptied immediately after the pressure reaches zero. Large boilers should stand about eight hours after steam pressure is down before emptying; several days would be better as there would then be less leakage about the seams and tube ends. Boilers should be vented when emptied in the same manner as when filled.

9. Laying Up Boilers. When putting a boiler out of service, it should be cooled, emptied, and thoroughly cleaned, both inside and outside. The setting should likewise be cleaned in all parts. Leave the hand hole covers and manhole plates off. After washing the interior of the boiler, let it drain well. Then see that no moisture can collect anywhere about the boiler, either internally or externally. Empty the syphon below the steam gauge if the boiler room is likely to be cold, and take the gauge off and store it safely. If the boiler is in a damp location, close it with a can of unslaked lime in the drum. Coating the internal and external surface of the plates and tubes with oil where possible aids in the prevention of corrosion from dampness.

10. Entering Boiler. If the boiler is one of a battery, lock the stop valve, the blow-off valve, and the feed water valves in the closed position and keep them locked until the boiler is ready to be put in service again. In addition to locking valves, signs reading "Danger—Man in Boiler" should be placed on all of the locks mentioned. If non-return valves are not provided, disconnect header and insert blank to protect men inside boiler.

Before manhole covers are removed, surface blow-off and water column should be opened to be sure there is no pressure in the boiler. After opening manholes and bottom handholes, the inside of the boiler should be well ventilated. This is to remove the possibility of breathing asphyxiating gas and other dangerous gases that may be present. At this point, naked lights should be kept away, and only incandescent electric lights should be used, having reinforced cord free from defects with a vapor proof globe and strong guard attached to a wooden handle enclosing the socket.

Before entering the fire boxes or combustion chambers, care should be taken to open them and remove explosive or suffocating gases.

At least one man should be present outside the boiler when another enters. This is to render adequate assistance to the man inside should anything go wrong. Whenever possible choose a small man to enter the boiler, as manholes are not large at best.

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

To Earn More— Learn More

GEOLOGY OF PETROLEUM

By William Harvey Emmons

A Discussion of the origin, occurence, accumulation and distribution of oil and gas. The book presents the salient facts relating to the geology of the world's principal oil fields with reference to literature that describes them in details. It offers a perspective of the geology of Petroleum.

610 pages, 6x9, 254 maps and illustrations. $6.00 net, postpaid.

FIELD METHODS IN PETROLEUM GEOLOGY

Cox, Drake and Mullenburg

The first book on details of field procedure for the petroleum geologist. Instruments and instrument methods in general use are described, the personnel of the field party and questions incidental to field procedure are discussed in detail.

350 pages, pocket size, illustrated, $4.00.

HANDBOOK OF THE PETROLEUM INDUSTRY

David T. Day, Editor-in-Chief

The most comprehensive, most authoritative and most up-to-date work on petroleum ever written. The work of a staff of nineteen foremost petroleum experts, under the editorship of Dr. David T. Day, of the U. S. Bureau of Mines. A work which will appeal to everyone who is in any way interested in the petroleum industry.

Two volumes, 1970 pages, 6x9. Profusely illustrated. Price, $15.00.

Send us your order NOW

The GULF PUBLISHING COMPANY
HOUSTON, TEXAS

Here, then, it is!

As our old friend, Robert Ruxton, says, proof is not a statement of the truth, but proof of the truth of the assertion. Digest that.

Doubtless we have asserted a lot of things about PELCO Bits, and it may be that you relish, now and then, a bit of proof of the truth of our statements.

Here, then, it is, unsolicited, and as unexpected as a bolt from the blue, its author a Lone Star driller and a "man o' parts." Read and believe:

"Have been using your bits and can heartily recommend them as the best fish tails I ever used.

"I have been drilling for twelve years and have used practically every bit made, but give me PELCO for hole."

If you like variety, here's more proof from Arkansas, penned by the scribe for a firm of drillers, dictated, read and signed by the boss, and wholly unsolicited:

"We find your PELCO Bits to give perfect satisfaction and have used no other for the last two years. We have four rigs and receive satisfactory results from your PELCO Bits wherever used."

Names and addresses on suspicion, of PELCO Bits on trial. We'll make good either way—or both.

Good people to do business with

Pelican Well Tool & Supply Co.

General Offices: Shreveport, La.

M. Ind. Rgtrda. TRADE PELCO MARK *Reg. U. S. Pat. Office*

Smackover Field Extended Two Miles

Friday, October 13, was anything but unlucky for new Arkansas pool

EL DORADO, ARK., Oct. 16.—Friday, October 13, was not an unlucky day in the Smackover Field, as, in the wee sma' hours of that date, the Marr Syndicate's Saxon test, located in section 4-16-16, Union County, came in unexpectedly with an initial flow which steadily increased from around 300 barrels to about 500 barrels per day of 29 gravity oil. It is said that the bit had penetrated only a little more than one foot into the sand when the flow began.

The fact that this well blew in unaided after the bit had barely scratched the sand, and that the gravity of its oil is several degrees higher than that produced from the other Smackover wells, is pointed out with considerable enthusiasm by local operators, some of whom believe that this test may have tapped an entirely new reservoir of light oil. It is reported that the well will be drilled deeper with cable tools.

This test is located three and a half miles southwest of the Berry & LeGrande extension in section 36-15-16, Ouachita County; and two miles southwest of the Harris Drilling Company's gas well in section 35-15-16, near the Ouachita-Union County line. If this well proves to be an extension of the Smackover pool, it will extend the length of the proven triangle by two miles, to a total length of eight and one half miles.

Eddie Jones completed a 6000-barrel well in proven territory last week. This well, known as No. 1 Laney, located in section 31-15-15, Ouachita County, came in with a tremendous flow of gas, estimated at around 25 million cubic feet, in addition to the oil.

The V. K. F. Drilling Company completed its second Richardson well, in section 29-15-15, Ouachita County, last week. It came in with an initial production of approximately 1,000 barrels of oil per day from eight feet of sand at a total depth of 2,068 feet.

Although the Standard Oil Company's second Murphy well, in section 28-15-15, Ouachita County, has about 1,750 feet of oil in the hole, it has not yet flowed. Arrangements are being made to try to bring it in by the use of a swab. It penetrated three feet into the sand at a total depth of 2,047 feet.

Shreveport, La., Oct. 17.—Palmer et al's Pinewoods Lumber Company No. 1 in section 35-23-10, Webster Parish, came in today with an initial production of 25,000,000 cubic feet of gas from 12 feet of sand at a total depth of 2662 feet.

Considerable disappointment was caused last week by the unsuccessful test of Batek & Scarbrough's No. 1 Usrey, in section 36-15-15, Ouachita County, which was bailed dry in eleven feet of sandy shale at a depth of 2,008 feet. It will be drilled deeper. This test is located about three and a half miles southeast of the Smackover discovery well, and two and a half miles northeast of the Crawford & Sebastian well in section 14-16-15, Union County, which, as reported in this column last week, came in early in September as a gasser spraying oil from a depth of 1,975 feet, was drilled fifteen feet deeper and completed one month later as a 350-barrel oil well.

Tests probably will be made in the following wells during the course of the week:

*Arkansas Nat'l Gas Co.'s Laney 1, 31-15-15, casing seat 1920, between discovery well and Berry & LeGrande extension.

Simms Oil Company's McKenzie 1, 36-15-16, casing seat 1792, offsetting B. & LeGrande extension.

*Baker & Deans' Laney 1, 30-15-15, casing seat 1928, between discovery well and Berry & LeGrande extension.

Newton, Trustee's Poole 1, 25-15-16, casing seat 1903, ¼ mile north of Berry & LeGrande extension.

Deep Tests—El Dorado

The Frost Oil Company has set and cemented a string of six-inch casing at 2,870 feet in its Lawton deep test in section 36-17-16, Union County.

The Constantine Refining Company and Rooker et als are expected to set six-inch casing early this week in their respective deep tests in the El Dorado Field, as both are drilling below 2,650 feet. The former is deepening its No. 1 Trimbel, in section 1-18-16; and the latter are deepening their No. 1 Yarbrough, in section 2-17-16.

The El Dorado Natural Gas & Petroleum Corporation is drilling at around 2,400 feet in its Vinson-Tatum well in section 11-16-16, Union County, which is thought to be located on the southwestern slope of the Smackover structure.

The Love Petroleum Company is approaching the 2,300-foot level in its Miles deep test in section 35-17-15, Union County.

The Humble Oil and Refining Company is making a test of six feet of sand at a total depth of 2956 feet in its Webb test in section 6-18-13, Union County. Some salt water trouble is being experienced, as the casing stuck several feet off the bottom when it was being set. Nevertheless, there is said to be about 500 feet of oil in the hole. The fluid could not be lowered with a bailer, and operations are now suspended awaiting the arrival of a swab.

*Note: These two tests offset each other.

EVERYTHING for the OIL WELL

Operators in the oil fields in this territory have found that the many facilities we maintain assure them at all times

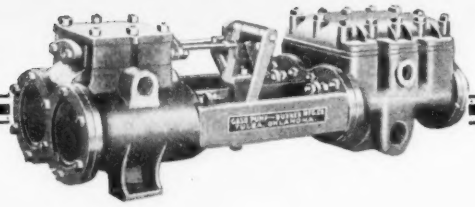
A Dependable Source of Supply

Peden supplies have had a large part in the development of the oil fields of Texas. With our years of experience in meeting the requirements of these fields we are in a position to serve best. Send us your orders or write today for prices and information.

"We Ship Quick"

"The Largest Supply House in the Southwest"

PEDEN IRON & STEEL CO.
HOUSTON SAN ANTONIO
FT. WORTH SHREVEPORT



Especially Adapted to Heavy Oils

The beauty of the GASO Duplex Piston Steam Pump illustrated above is that, while simple in design and moderate in price, it does exactly the same work as pumps of much more complicated design and far greater cost. It is designed for pressures ranging from 200 to 800 pounds, making it a general service pump especially suited for oil lines, long water lines and heavy oils.

The GASO Duplex Piston Steam Pump is one of a complete family described, together with a line of high-pressure fittings, in an unusually interesting 64-page catalog available on request. The advice of GASO engineers concerning **your** pump requirements is yours for the asking. Write or wire today.

GASO PUMP & BURNER MFG. CO., Tulsa, Okla.

GASO PUMPS

for oil field uses

SMACKOVER DISTRICT DRILLING REPORT

Ouachita County

Arkansas Nat. Gas Co.'s Laney 1, 31-15-15, set 6-inch 1920 ft; Laney 2, set 10-inch 620 ft; Laney 3, set 8-inch 582 ft; Laney 4, set 10-inch 614 ft.

Bailey et al's Rhoten 1, 32-15-15, sdtr 1700 ft. Baker & Dean's Laney 1, 30-15-15, set 6-inch 1928 ft. Baker et al's Murphy 1, 28-15-15, sd 2024 ft. Baker Trustee's Usney 1, 36-15-15, dry 2008 ft. Berry & LeGrande's Laney 1, 31-15-15, dr 1150 ft; Laney 2, dr 900 ft; Laney 3, set 15½-inch 60 ft; Laney 4, rig; McKenzie 2, 36-15-16, set 12½-inch 60 ft; McKenzie 3, dk; McKenzie 6, rig. Bradstreet Oil Co.'s Poole 1, 25-15-16, dr 120 ft.

Dasko et al's Berg 1, 20-15-15, dk; McKenzie 1, 36-15-16, floating 7500 bbls fresh water 1875 ft; McKenzie 2, 36-15-16, dk timbers.

El Dorado Union Oil Co.'s Lagrone 1, 36-15-17, sd 1500 ft.

Forest Oil Co.'s Goodwin 1, 29-15-15, dk; Lewis 1, 36-15-16, set 10-inch 520 ft.

Gulf Ref. Co.'s Jones 1, 29-15-15, dr 215 ft.

Hirsch Trustee's Fee 1, 25-15-16, dr 45 ft. Houston Oil Co.'s Cunningham 1, 25-15-16, dk; Laney 1, 31-15-15, lcn; Murphy 1, 28-15-15, dr 300 ft. Humble Oil & Ref. Co.'s Graves 1, 28-15-15, rig.

Eddie Jone's Laney 2 and 3, 31-15-15, dks.

Marr & Morris' Laney 1, 31-15-15, dr 45 ft. H. Morris' Laney A-1, 31-15-15, dr 300 ft. McMurray et al's Hirsch 1, 25-15-16, dk timbers; Laney 1, 31-15-15, dr 1000 ft; Laney 4, dr 95 ft.

Newton Trustee's Poole 1, 25-15-16, set 6-inch 1903 ft.

Olvey et al's McDonald 1, 1-16-16, set 10-inch 520 ft; Umstead 1, 30-15-15, rig.

Palmer et al's Laney 1, 36-15-16, set 8-inch 930 ft.

Reynolds et al's Poole 1, 20-15-15, sd 2176 ft. Roxana Pet. Corp.'s Murphy 1, 28-15-15, dr 400 ft; Murphy 2, 28-15-15, rig.

Neill Scroggin's McKenzie 1, 36-15-16, dr 1100 ft. Simms Oil Co.'s Goodwin 1, 29-15-15, dk timbers; Goodwin 2, dk timbers; Hirsch 1, 31-15-15, dr 500 ft; Laney C-1 and C-2, dks; Laney 1, 31-15-15, set 10-inch 418 ft; Laney 3, dk timbers; D. S. Laney 1, 31-15-15, dk; D. S. Laney 2, rig; McKenzie 1, 36-15-16, dr 1215 ft; McKenzie A-1, 36-15-16, dk; McKenzie A-2, dk timbers; McKenzie A-3 and A-4, lcns; J. E. Murphy 2, 28-15-15, dr 1805 ft; J. E. Murphy 3 and 4, 28-15-15, dks; Tom Murphy 1, 2 and 3, 29-15-15, dks; Nannie Murphy 1 and 2, 29-15-15, lcns. E. L. Smith's Bradley 1, 30-15-15, dk. Smith & Wheelock's McKenzie 1, 36-15-16, dr 100 ft. Standard Oil Co.'s Murphy B-2, 28-15-15, testing 2047 ft; Murphy B-3, dr 300 ft; Murphy B-4, set 10-inch 182 ft; Murphy B-5, dk timbers; Murphy B-6, dk. Sun Co.'s Johnson 1, 30-15-15, rig.

Texas Pacific Coal & Oil Co.'s Laney 1, 31-15-15, dr 850 ft; Laney 2, dk; Laney 3 and 4, lcns. Thompson et al's McDonald 1, 1-16-16, set 12½-inch 80 ft. The Texas Co.'s Berry 1, 33-15-15, dk; McKenzie 1, 36-15-16, lcn.

V. K. F. Drilling Co.'s Richardson 2, 29-15-15, testing 2068 ft; Richardson 3, rig; Richardson 4, dk.

Woodley Pet. Co.'s Richardson 1, 29-15-15, dr 1800 ft.

Union County.

El Dorado Nat. Gas Co.'s Vinson Tatum deep test 11-14-16, dr 2365 ft.

El Dorado, Ark., Oct. 17.—The production of the Smackover field for the 24 hours ending with 7 o'clock Tuesday morning was estimated as follows: Berry & LeGrande, 5000 barrels; Eddie Jones, 4000 barrels; Simms Oil Company, 2000 barrels; V. K. F. Drilling Company, 800 barrels; Standard Oil Company 600 barrels; Marr et al 350 barrels; total 12,750 barrels.

ARKANSAS PRODUCTION

El Dorado, Ark., Oct. 16.—The average daily production for the El Dorado and Smackover fields for the past week was divided approximately as follows:

EL DORADO

	Barrels
Gulf Refining Company	2,075
Standard Oil Company	2,000
Arkansas Natural Gas Co.	1,500
Humble Oil & Ref. Co.	790
Constantine Refining Company	730
Phillips Petroleum Company	700
Sun Company	620
F. C. Henderson	590
Gladys-Belle Oil Company	570
Detroit Summerfield Oil Co.	525
El Dorado Nat. Gas & Pet. Co.	505
Magnolia Petroleum Corp.	495
Johnston Drilling Company	480
Livingston Oil Corporation	460
Henry Hobbs	405
Caddo Central Oil & Ref. Corp.	400
Woodley Interests	385
Enfisco Oil Company	370
Arkansas-Invincible Oil Corp.	365
Harrell & Hatcher	355
White Oil Corporation	350
Amerada Petroleum Corp.	325
Associated Prod. & Ref. Corp.	310
A. H. Ramage	300
J. S. Richardson	280
Weiss Oil Corporation	260
Skelly Oil Company	255
Pure Oil Company	245
Hudson Oil Company	240
Clark & Greer	235
Webster & Wingfield	220
Terry Summerfield	215
Miscellaneous	8,945
Total	26,500
Last week	27,165

Smackover

	Barrels
Berry & LeGrande	shut in
Simms Oil Company	2,025
Standard Oil Company	520
V. K. F. Drilling Company	710
Total	3,255
Last week	7,795

ARKANSAS COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
El Dorado Field—		
Biles & Wilroy, Brown 1, 20-17-14	275	2145
E. L. Coleman et al's Pendleton 3, 21-18-15	110	2133
McMurray Drilling Co.'s Brown 1, 20-17-14	400	2187
Tarkington et al's McKinney 1, 9-19-15	50	2187
Total, 4 wells	835	
Smackover Field—		
E. C. Thompson et al's Arnold 1, 24-15-16	‡	2532
Stephens Field—		
Columbia Oil & Gas Co.'s Hall 2, 11-15-20	10	2185

Established 1867

The Vilter Manufacturing Co.

1152-1162 CLINTON ST., MILWAUKEE, WIS.

Builders of REFRIGERATING MACHINERY, OIL COOLING COILS, GASOLINE CONDENSERS, ETC.

Vilter High Speed Horizontal Refrigerating Machine

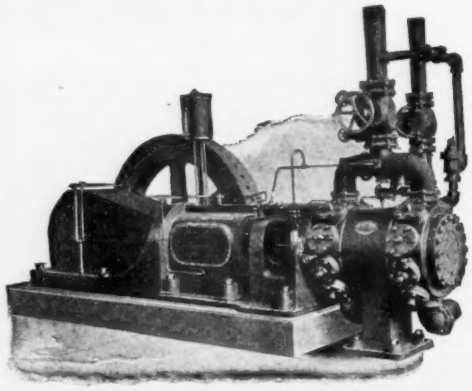
Vilter Equipment is used in many of the oil refineries.

Vilter-Milwaukee typifies the true standard of reliability in machinery construction and refrigerating engineering.

Vilter Low Temperature Compression System (for efficiently producing low temperatures with compression system).

Vilter Sales Engineers always at your service.

Branch offices in all the principal cities.



STEPHENS, ARKANSAS, DRILLING REPORT

Cox Oil Enterprises' Russ 1, 14-16-20, dk.

Haskell et al's Webfer 2, 24-15-20, fsh 1600 ft.

Murphy et al's Booth 1, 34-16-19, dr 650 ft; Wilson 1, 17-16-19, set 12½-inch 110 ft.

Quenan-Wells-Dudney, Synd.'s Hammond 1, 35-15-20, lcn.

Tate et al's Booth 1, 34-16-20, dk; Hall 1, 11-15-20, sd 2450 ft. Transcontinental Oil Co.'s Curry 1, 5-16-19, sd 2650 ft.

EL DORADO DRILLING REPORT

Associated P. & R. Co.'s Thurkhill 3, 28-18-15, wosr 2149 ft; Carroll 5, 28-18-15, dr 1100 ft.

Big 4 Oil Co.'s Cranston 2, 19-17-14, sd 2138 ft; Rogers 1, 17-18-17, sd 1946 ft. Block Oil Co.'s Easter 1, 21-19-11, sd 2220 ft. Bondurant et al's Stegall 1, 31-18-12, dr 1225 ft. Brown Oil Co.'s Nash 1, 3-19-15, wosr 2151 ft.

Coleman et al's Pendleton 4, 21-18-15, set 6-inch 2130 ft. Constantine Ref. Co.'s Hinson 5, 7-18-15, dr 1310 ft; Martin 1, 1-18-16, dry 2190 ft; Trimbel 1, 1-18-16, dr 2640 ft.

Dauche et al's Tuffts 3, 31-16-14, dr 1650 ft.

El Dorado Natural Gas & Pet. Corp.'s Frazier 2, 1-18-16, dk. Equitable Pet. Co.'s Barton 1, 33-17-15, set 6-inch 2042 ft.

Frank et al's Murphy 2, 20-17-14, dr 350 ft. Frost Oil Co.'s Lawton 7, 36-17-16, set 6-inch 2871 ft.

Gann & Burke's Murphy 3, 20-17-14, set 6-inch 2160 ft. Gardner et al's West 2, 19-17-14, wosr 2171 ft; West 3, set 6-inch 2162 ft.

F. C. Henderson's Pratt 4, 8-18-15, rig. Humble O. & R. Co.'s Webb 1, 6-18-13, set 4½-inch 2937 ft. Hunt Oil Co.'s Pickering 2, 17-18-15, dk.

Jarmon Drlg. Co.'s Moody 1, 20-17-14, wosr 2169 ft. Johnson Drlg. Co.'s Benson 3, 4-19-15, dk timbers. Joiner et al's Traylor 2, 9-19-15, wosr 2173 ft.

Keen & Wolfe's Slaughter 1, 10-17-16, sd 2094 ft. Kemp et al's Garza 1, 6-19-15, set 12¼-inch 220 ft. Knott et al's Nash 1, 29-17-15, wosr 2205 ft.

Love Pet. Co.'s Miles 1, 35-17-16, dr 2265 ft.

Magnolia Pet. Co.'s Ingram 1, 20-17-15, moving over to drill new hole. Marr et al's Jones 1, 3-19-14, dk. Morgan et al's Mellor 1, 1-18-16, rig. Morris Drlg. Co.'s Rowland 2, 28-18-15, sd 2152 ft, dry; Rowland 3, set 6-inch 2130 ft. Mutual Oil Co.'s Spooner 2, 29-19-16, set 10-inch 180 ft.

McMurray Drlg. Co.'s Brown 2, 20-17-14, dk.

Oil Operators Trust's Murphy 1, 7-16-15, rig. Ozark Oil Co.'s Cranston 3, 19-17-14, wosr 2168 ft; Smith 4, 19-17-14, sd 2180 ft; West 1, 19-17-14, wosr 2178 ft.

D. C. Richardson's Murphy 2, 20-17-14, set 6-inch 2100 ft. Rooker et al's Dumas 1, 15-17-16, wosr 2142 ft; Yarbrough 1, 2-17-16, dr 2650 ft.

Slantz et al's Madden 1, 3-18-15, sd 2244 ft. Southern O. & L. Co.'s Armstrong 11, 31-17-15, fsh 2595 ft. Standard Oil Co.'s Trimbel 2, 1-18-16, sd 2903 ft, will deepen. Stewart & Hamilton's Smith 1, 20-17-14, wosr 2152 ft.

Terry Summerfield Oil Co.'s Green 1, 19-19-15, sd 2590 ft.

Woodley et al's Van Hook 4, 7-18-14, dr 1350 ft; Townsend 1, 6-18-14, dr 1200 ft; Horton 1, 2-18-15, wosr 2151 ft.

Gas Industry Growth Is Faster Than Thought

Word came from Montana thats shede ing information on the growth of the gas industry in the United States has been given out by Dana D. Barnum, president of the American Car Association, in connection with the fourth annual convention of the organization to be held in Atlantic City October 23. During the last ten years the American people consumed approximately three times as much gas as was used during the preceding decade, according to Mr. Barnum, and sales for the last year touched a new high record of 326 billion cubic feet.

A statement on the growth of the gas business in this country follows:

"A few years ago gas companies thought they had reached the limit of their business when they sold annually 1000 cubic feet per capita. The demand has grown until today it is 3000 cubic feet per capita. The most remarkable feature of this growth is that during the years 1901 to 1911, the sales increased 30 per cent, while during the years 1911 to 1921 the increase jumped to 80 per cent.

"Today the gas industry faces the greatest development of its history. Demands for service are increasing so fast that this year it will take hundreds of millions of dollars of new capital to meet them. During the year 1921 alone the industry took on 363,000 new customers, added 314,000 meters to its service facilities, built 1000 additional miles of gas mains and increased the number of domestic appliances in use by 370,000 ranges, 150,000 water heaters and 144,000 space heaters."

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; c—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

Block of Sinclair Preferred Was Offered

New York, N. Y., Oct. 14.—A block of Sinclair Consolidated Oil Corporation 8 per cent cumulative preferred stock is being offered by a banking group managed by Blair and Company and Chase Securities Corporation at 100 and accrued dividend, free of normal federal income tax. This is the first public offering of Sinclair preferred, which has been obtainable only by conversion of the 7½ per cent notes of the company. The preferred stock is redeemable at 110 and accrued dividend and has an annual sinking fund of 3 per cent of the total amount of the issue outstanding which is payable semi-annually.

It is believed that current earnings of Sinclair Consolidated would justify an increase in common dividend for next year and net earnings for the first half of this year were about $19,500,000, before interest and depreciation. Sinclair's cash on hand is estimated at approximately 570,000,000.

Company's statement to bankers in letter indicates that earnings during the first half of 1922 were better than for any corresponding period in any other year, even exceeding earnings in 1920 when profits were eight times maximum preferred dividends before depletion reserves and after depletion reserves were five times such dividends.

Columbus, Ohio, Oct. 14.—After more than fifty years spent in the oil business, C. C. Zinn, superintendent of the producers and refiners division of the Pure Oil Pipe Line Company, retired October 1. He has been with the Pure Oil Pipe Line Company for more than 24 years, first joining the Producers and Refiners Oil Company, Ltd., later changed to Producers and Refiners Pipe Line Company and then to the Pure Oil Pipe Line Company.

Wichita, Kansas, Oct. 17.—J. W. Duvall, former natural gas expert of the Oklahoma Corporation Commission, has become manager of installation for the Kansas Gas and Electric Company here. He is now in charge of installation of a three part distributing system for Wichita, Newton and Hutchinson.

OIL FIELD VIEWS WANTED.

The OIL WEEKLY is anxious to publish oil field views that would be of interest to the men in the field. We cannot have representatives in all fields to watch for views which should be published, and we would like for the drillers, men on the derrick floors and lease foremen to become our unofficial representatives.

To add a little interest to securing of views, The OIL WEEKLY will pay $1 or a year's subscription to The OIL WEEKLY for every picture sent in by drillers or others actually working in the field, which are used. The pictures will be returned, whether used or not. Small snap shots can be used if clear. The picture does not have to be large and should not be mounted. Many of the pictures you see in the magazine are made from small kodak snap shots.

Photographs of new wells, pictures of equipment that has done unusual service, new types of equipment, especially that designed by men in the field; men that have accomplished unusual results in drilling, fishing or laying pipe lines and unusual oilfield scenes are some of the types of pictures wanted.

A few words of explanation should accompany each picture as a photograph cannot be used unless we can state clearly what it is. Just mail the picture to The OIL WEEKLY, box 1307, Houston, Texas. You will be sent the magazine in which the picture appears.

The Editor.

PENNSYLVANIA COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Allegheny County—		
Harbison & Holmes' John Devine 1	8	....
Clarion County—		
Charles Ray & Co.'s Gilbert 3	3	....
L. G. & I. L. Neely's Neely 4	2	....
Washington County—		
Manufacturers Light & Heat Co.'s W. Hixenbaugh 1	¶2	....
Washington Oil Co.'s John McMannis 1	2	....
Tidioute Field—		
Jennings & Hertzel's Jennings 2	300	....
Clinger Oil & Gas Co.'s Wheelock 1	¶2½	....
Butler County—		
M. B. Finnessy's Shaner 10	3	....
Barkley 22	2	....
E. J. Rapp & Co.'s Pisor Heirs 1	3	....
Watson & Hendricks, Lutz 1	*	....
S. T. Robinson & Co.'s Robinson 1	2	....
Greene County—		
Carnegie Nat. Gas Co.'s:		
J. Ringland 3	2	....
Wm. Cooper heirs 4	¶4	....
Keystone Oil & Gas Co.'s Dave Lemly 1	¶3	....
Marshall Oil & Gas Co.'s David Null 1	¶¾	....
Prosperity Oil & Gas Co.'s J. McNichols 1	20	....
Gray Oil & Gas Co.'s Walton C. Gray 1	¶3½	....
Center-Middle Field—		
Little Minster Oil Co.'s Lot 5214 3	3	....
I. X. L. Oil Co.'s Lot 583 5	3	....
Lamberton & Keller's Shawkey 1	2	....
National Oil Co.'s:		
D. E. Mills 48	2	....
Mooney 1	*	....
Humphrey, Krantz & Co.'s Seaman 2	3	....
Venango County—		
Myers Oil & Gas Co.'s Myers 4	3	....
McCoy & Vandresser's Walters 28	2	....
United Nat. Gas Co.'s Hasson 1	2	....
Call Bros' Call 2	2	....
Hampton & Dunham's Poor 15	2	....
Smith & Hughes' Hughes 17	2	....
Bradford Field—		
Hazlewood Oil Co.'s Enterprise 1	2	....
Mayrock Oil Co.'s Weston 31	2	....
Turner & Co.'s Turner 1	2	....
Hungwille & Co.'s Hungwille		
F. J. & E. L. Shippey,'s Shippey 8	2	....
Mix Creek Oil Co.'s Mix Creek 10	2	....
L. H. Smith & Sons' Smith 1	2	....
Kishwaukee Oil Co.'s Bingham 173 39	3	....
Wilson Oil Co.'s Wilson 1	2	....

Another 300-Barrel Flowing Well In Old Pennsylvania Field

PITTSBURGH, PA., Oct. 16.—The week in review in the Pennsylvania-West Virginia fields shows the usual number of completions, with the old Pennsylvania field away in front of the West Virginia field, in the number of wells and new production. The sensation of the week in the Pennsylvania field was the completion of another flowing well in the Tidioute field, by Jennings & Hertzel in a second well on the Jennings lease, with a production of 300 barrels, and in the same field, the Clinger Oil and Gas Company brought in a 2,500,000 cubic foot gas well on the Wheelock lease, an unusually large volume of gas for the old development.

The general run of wells over the Pennsylvania regions were small oil wells, as the best completion was a 20-barrel producer found by the Prosperity Oil & Gas Company on the McNichols lease, in Greene County, in what is known as the Southwestern Pennsylvania field, the next best well being a test drilled by Harbison & Holmes on the Devine lease, in Allegheny County.

The best gas wells of the week were distributed among Washington and Greene Counties and in the Tidioute field. The number of gas completions in Pennsylvania for the week was 6 with a casing-head volume of 14,750,000 cubic feet. West Virginia field for the same period had 12 gas wells, with a volume of 34,000,000 cubic feet. Calhoun and Lewis Counties, each furnishing a 4,000,000 cubic foot well. The oil wells of West Virginia were very small, the best being a 10-barrel pumper found in Monongalia County.

In Pennsylvania for the week a total of 39 wells were completed, with 6 gas wells, 2 dry holes and 392 barrels production, while West Virginia is credited with a total of 21 wells, with 12 gas wells, 6 dry holes and a new production of but 53 barrels.

In all the fields east of the Mississippi river for the week there were a total of 143 completions, with 27 gas wells, with a volume of 52,750,000 cubic feet, 19 dry holes, 97 oil wells with a combined production of 1335 barrels.

Operators throughout the Eastern regions are expecting a decline in the price of crude and for that reason they are only completing the present drilling wells and will then shut down for the winter months, and do no new work only that necessary to conform with lease conditions.

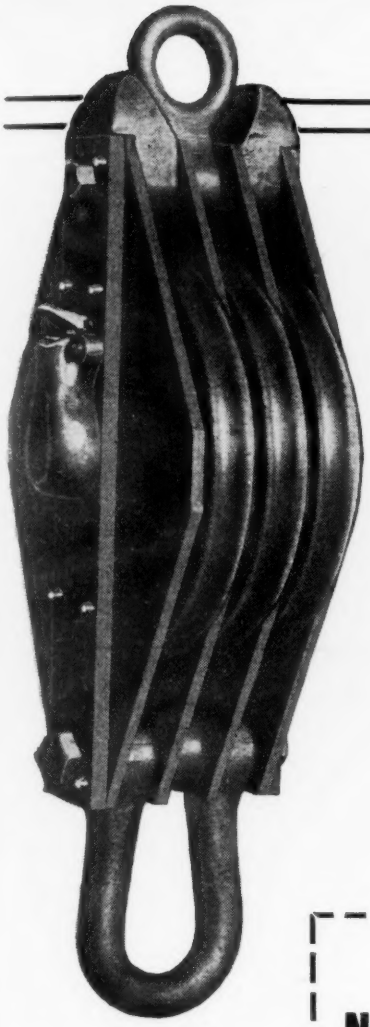
The runs of oil handled by the pipe lines east of the Mississippi river, that make their monthly reports show a total of 1,520,542.93 barrels from the wells. The actual deliveries of these pipe lines of the same grade oil amounted to 3,667,645.73 barrels for the month of September, and the stocks at the close of September of this same oil was 8,979,925.52 barrels which includes the stocks of oil in Illinois as well as the Franklin, Pa., pipe line. This does not mean all the stocks held in the eastern pipe lines, as the total figures up to 18,894,535.27 barrels, of which 9,914,605.75 barrels is Oklahoma crude.

WEST VIRGINIA COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Taylor County—		
Pittsburgh & W. Vir. Gas Co.'s Anna Reed 1	*	2996
Marion County—		
Carneigie Nat. Gas Co.'s W. C. Miller 1	*	....
Pleasants County—		
Reynolds & Smith's J. J. Simington 4	¶2	....
Calhoun County—		
Richter Oil Co.'s Emily McRay 1	¶4	....
Wetzel County—		
Shanklin Bros.' Jesse Staley 1	2	....
Doddridge County—		
Harrisville Oil & Gas Co.'s Irvine Little 2	2	....
Tyler County—		
Riggs & Price's Herbert Howard 1	3	....
Lewis County—		
Davidson & Neely's G. G. Cookman 1	¶4	....
Grass Lick Oil & Gas Co.'s John Moran 1	¶3	....
Wood County—		
Athey & Kellar's B. H. Veon 1	*	....
Cox Oil Co.'s Sweeney Bros. 1	2	....
Wirt County—		
King Oil & Gas Co.'s Lenona R. Rex 13	3	....
Jas. R. Dodworth & Co.'s Little Kanawha Log Co. 6	5	....
Monongalia County—		
Maxon Oil Co.'s M. S. Henderson 1	5	....

Company, Well, Location	Initial Production bbls.	Depth
Hope Nat. Gas Co.'s A. B. Price 3	10	....
Roane County—		
Heck Oil Co.'s Wm. Marshall 2	6	....
Kendall Oil Co.'s C. A. Kendall 1	3	....
Richard Elkins' D. L. Tawney 6	¶3½	....
Gilmer County—		
Carnegie Nat. Gas Co.'s H. B. Stewart 1	¶3½	....
Coning Oil & Gas Co.'s J. A. Thompson 3	¶3	....
Hope Const. & Ref. Co.'s M. Dillman 2	¶3	....
E. G. McCall & Co.'s J. P. King 1	¶2½	....
Hope Const. & Ref. Co.'s Watson 1	6	....
Ritchie County—		
Carnegie Natural Gas Co.'s		
A. L. Britton 1	¶½	....
W. E. Cunningham 1	¶2½	....
South Penn Oil Co.'s		
A. L. Britton 1	2	....
W. H. Mason 1	¶2½	....
Cairo Oil Co.'s J. B. Markey 2	*	....
Power Oil Co.'s Vocanic 26	4	....
David French & Co.'s J. E. Carlisle 1	*	....
Dr. Blair & Co.'s Isaac Morrison 1	*	....

H. A. Clark with the Clark Machine Company of Wichita Falls, Texas, was in the Houston and San Antonio districts during the past week.



Boykin "Greyhound" Travelling Block

Boykin Special Lubrication Features Second To None.

The Driller's Favorite—

BOYKIN "Greyhound" PRODUCTS

ROTARIES
TRAVELLING BLOCKS
CASTINGS

TOOL JOINTS
CROWN BLOCKS
FORGINGS

Products of Specialization—Dependable Time and Money Savers

For Speed and Endurance, Specify "Greyhound"

Write for photograph and information of the

New Boykin "Greyhound" Rotary

Embodies Every Detail for Rotary Perfection
Now Ready for the Oil Fraternity

Boykin Machinery & Supply Company

HOUSTON - BEAUMONT

BOYKIN
SPEED AND ENDURANCE
GREYHOUND PRODUCTS

KENTUCKY COMPLETIONS

Company, Well, Location	Initial Production Bbls.	Depth
Simpson County—		
Foxworthy & Company:		
Widow Turner 3	5	570
Widow Turner 4	10	580
Cumberland County—		
McClintock Oil Company:		
Hood 1	80	560
James R. Neeley 1	75	159
C. A. Gartlan & Co. Nick Donaldson 1	25	210
Johnson-Magoffin Counties—		
Castle Pet. Co. Hen Blanton 1	1	....
Mid South Oil Co. Hen Blanton 1	5	....
Coast Oil Co. Sebastian McKenzie 2	10	....
Stone & Co. Luster 1	8	....
Warren County—		
Wood Oil Co. Garrett-Block 8	2	1018
Ohio Fuel Oil Co. W. A. Gott 9	20	986
Makeever Bros. Sandidge 14	30	535
J. C. Barnett Barbee 14	75	500
Allen County—		
Unique Oil Co. Brown 8	40	196
Unique Oil Co. Brown 9	30	192
Bowman & Co. Waggoner 2	*	...
Sam Bradshaw John Pruitt 5	2	490
Unknown Parties Silabin 1	8	175
Star Oil Co. Garrison 5	5	286
Star Oil Co. Garrison 7	30	242
H. R. Danner & Co. Barbee 9	20	268
Thrasher & Co. Stubblefield 1	*	710
E. M. Treat & Co. J. R. Duncan 3	5	305

Field Work Is Slowing Down in Kentucky—Completions Are Fewer

WINCHESTER, KY., Oct. 16.—Every section of the Kentucky oil field is in a slump, and especially in the Warren County field of the Western Kentucky regions. This decrease in work in a way is due to the price of crude.

The week shows but a total of 23 wells completed, with two dry holes and but 486 barrels of new production.

Western Kentucky is a shallow field. The companies that go along in a careful manner and take the best of care of their wells and understand the formations and how to handle them are the ones that are making the money. Fabulous prices were paid for acreage in the earlier days of the shallow Warren County field, but the trade soon learned better. Many big wells found in this shallow sand paid for themselves within a few days and then went blooie.

The best completion for the west in the west side district of the state was a 75-barrel starter drilled by J. C. Barnett in No. 14 Barbee lease, at 500 feet, and in Warren County, while in Allen County, the present seat of activity in the western division, the best completion was a 40-barrel well found below the shale at a total depth of 196 feet.

In Cumberland County, the present best looking bet in Kentucky, preparations are being perfected for a large amount of work. The Paragon Development Company is already installing its pipe line from Neely's Ferry to the Sulphur Creek field, and erected a 1000-barrel tank to take care of the production. The old well on the Hood lease owned by the McClintock Oil Company, and after several days pumping, showed a production of 80 barrels a day, of an excellent high grade crude. The Sulphur Creek field of Cumberland County and the Kettle Creek field of Monroe County, about seven miles apart, are divided by a series of hills between the two creeks in which the two fields are named after, and there is a prospect of the Paragon Company extending its gathering line to Kettle Creek, where the big well was recently struck by Gartland and Company on the Keen lease, that was reported at better than 300 barrels, from a depth of 210 feet.

During September the Indian Refining Company, through its lines in Kentucky, handled a total of 162,929 barrels. That handled from the central portion of the state from Powell, Lee and Estill Counties amounted to 62,983.17 barrels. From the Western Kentucky division, it handled 34,662.20 barrels from Warren County and 65,283.63 barrels from Allen County. During the same period the Cumberland Pipe Line Company handled through its gathering lines a total of 356,482.13 barrels, delivered 115,113.41 barrels, and holds stocks to the amount of 534,543.48 barrels at the close of September. The Swiss Pipe Line Company handled through its lines for the month 1,664.82 barrels, delivered 441.90 barrels, and holds 9,609.71 barrels in storage. The Old Dominion Transit Company run 28,467.65 barrels, delivered 27,590.16 barrels and reports no stocks. There is enough oil handled by river barges, pipe lines and tank cars to bring the daily average production of Kentucky up above 25,000 barrels.

The Cumberland Pipe Line Company's runs from eastern Kentucky for the week totalled 84,316.45 barrels, for a daily average of 14,052.75 barrels, a small decrease from the previous week.

No Completions for Indiana Past Week

Vincennes, Ind., Oct. 16.—While Indiana failed to report any completions during the week, the Illinois field did not do much better with but two wells. One was quite an important one, being in advance to the west of the Centralia field, and widens out that pool to quite an extent.

Nothing new has developed in the wildcat well of the Ohio Oil Company in Edwards County, and now the closest watched wells of the wildcat nature drilling in the state are located near Stronghurst, a town in the southern part of Henderson County, on the Santa Fe railroad between Galesburg and Dallas City. The Pope Bros., operators of Oklahoma and residing at Parkersburg, W. Va., are drilling the two tests and have contracted for the drilling of four additional wells. The first well found a showing for about 15 barrels in the Hoing sand at around 500 feet, but is now drilling near the Trenton, which the owners expect to strike at around 900 feet, in fact the drill passed through the cap rock above the Trenton and a showing of oil was encountered. The Ohio Oil Company, Pure Oil Company and numerous other large companies are reported securing holdings in several adjoining townships of Henderson County.

During September the Illinois Pipe Line Company and the Tidewater Pipe Line Company run a total of 595,603.99 barrels from the Illinois fields and delivered 407,333.79 barrels, and held in stocks at the close of the month a total of 2,635,261.30 barrels. This does not include the oil taken by the Indian Refining Company, which amounts to something around 200,000 barrels, and the Central Refining Company also handles a considerable amount, but this company, like others, does not make a statement of its runs.

The runs of oil from the old Indiana fields by the Indiana Pipe Line Company for September amounted to 18,269.69 barrels, deliveries, 900,489.51 barrels, and stocks at the close of the month totalled 658,422.28 barrels. These deliveries and stocks include oil transported through its lines from the Mid-Continent fields, and does not include the production in the Princeton field of southwestern Indiana, which is combined with the Illinois production of the Illinois Pipe Line Company, Tidewater Pipe Line Company and the Indian Refining Company.

The important well of the week was developed in Brookside township, Clinton County, and showed a production of 65 barrels at the same depth as the Centralia wells find their pay and looks as though it extends that field.

ILLINOIS COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Clinton County—		
B. F. Wirebaugh's J. Erbes 2	65	778
Crawford County—		
McNally & Starr's Josephs 2	7	1192

Los Angeles, Calif., Oct. 14.—Mutual Refining Company's new plant at Huntington Beach will be ready to begin operations by November 15, it is believed. It will have a capacity of 500 barrels and will produce the usual topping plant products.

Tulsa, Okla., Oct. 14.—Here on one of his periodical business trips, A. G. Francis of St. Louis, western manager of the Manhattan Rubber Manufacturing Company, reports the oil country trade to be very good. The Manhattan Rubber Manufacturing Company has a branch store in Tulsa at 217 East Third street.

O. Kitzelman, treasurer of the Fort Dearborn Oil Company of Chicago, spent the past week in Wichita Falls looking over the company's producing properties located in the Sunshine Hill district of the Electra field.

Sentinels on Guard

In our research and development department 101 men are at work safeguarding the quality of "Standard" products and seeking ways of making them better.

STANDARD OIL COMPANY
(New Jersey)

STANDARD OIL COMPANY
N J

SOUTHEASTERN OHIO COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Jefferson County—		
Braden, Spears & Co. W. P. Black 1	5	....
Washington County—		
J. T. Paner & Co. Hall-Crawford 4	5	....
E. P. McCutcheon & Co. James Smith 23	10	....
Wilson Oil Co. John Guthburlet 1	*	....
Brown & Bunnell Anna Koon 6	*	1200
Lane Bros. 9 J. F. Doan	5	....

CENTRAL OHIO COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Cuyahoga County—		
Melrose Oil & Gas Co. O. D. Stearns 2	*	....
Scioto County—		
Ohio Fuel Supply Co. Scioto Farm Land 1	¶¼	....
Athens County—		
Ohio Fuel Supply Co. H. E. Dodds 1	¶¼	....
Richland County—		
Waymire & Ames W. & M. Wigton 2	3	....
Holmes County—		
East Ohio Gas Co. J. R Forgy 1	60	....
Medina County—		
Logan Gas Co. K. Huttyan 1	¶½	....
Ohio Fuel Supply Co. H. F. Mabry 1	¶½	....
Ashland County—		
Logan Gas Co. W. E. Finley 3	*	....
Preston Oil Co. W. R. Thomas 3	2	....
Hocking County—		
Preston Oil Co. Finn Wolfe 1	*	....
Chartiers Oil Co. Hocking Products 169	50	....
Wayne County—		
Logan Gas Co.:		
W. A. Pearce 1	*	....
William Sell 2	¶¼	....
Reese Gas Co. I. D. Reese 1	¶½	....
Licking County—		
Edmonds, Clark & Co. Charles Dush 2	3	....
Pure Oil Co. J. T. Wiley 1	10	....
Edmonds & Hanes Oran B. Hall 1	10	....
McCann & Sons M. S. & G. W. Irwin 1	*	....
Ohio Fuel Supply Co. D. M. Davis 1	¶¾	....
Knox County—		
Pure Oil Company:		
C. C. McKee 6	5	....
T. B. Dudgeon 1	5	....
C. C. McKee 7	5	....

Producers in Ohio for Week Were Not Large but Territory Is Added

LIMA, OHIO, Oct. 16.—In Southeastern Ohio the best producer found was in Washington County, with 10 barrels, while in Central Ohio a very important find was made when the East Ohio Gas Company drilled in a 60-barrel Clinton lime producer on the Forgy lease, in Holmes County below 3000 feet. This well is in the northeastern part of the field while in almost the extreme south end of the field the Chartiers Oil Company brought in its No. 169 on the Hocking Products Company lease in Hocking County, also a Clinton lime well with 50 barrels production. Licking County, which was the first real section where gas was developed in Central Ohio and known as the Newark-Lancaster field, is now developing into quite an oil area, and some good wells are being brought in from week to week.

The Northwestern Ohio field has its usual thrill, when the Greenwood Oil and Gas Company brought in its No. 5 well on the Davis lease in Milton township, Wood County, and some dozen miles in advance to the north and west of the old Trenton Rock field, which came in at 50 barrels and the best of the five wells so far completed. The gusher of the Sun Company last week in the Tiffin field in Seneca County that started at 100 barrels an hour stopped flowing after the heavy pressure subsided and is being put on the pump. The well being a crevice one does not hold a heavy pressure like those found where there is no crevice. When put on the pump the well should produce around 200 to 250 barrels a day for an indefinite period.

The runs from the wells of Ohio by the Buckeye Pipe Line Company for September amounted to 401,105.31 barrels, the deliveries 1,208,260.59 barrels, and stocks at the close of the month were 6,063,697.21 barrels, a portion of which is oil from the Mid-Continent field. The runs from the Northwestern Ohio field were 112,807.33 barrels; deliveries 1,143,709.06 barrels; and stocks 5,465,705.33 barrels. In the Cleveland district of Central Ohio the runs were 24,302.95 barrels; deliveries, 1,593.00 barrels, and the stocks 27,268.07 barrels, and from Southeastern Ohio the runs were 263,995.03 barrels; deliveries, 62,958.53 barrels, and stocks were 570,723.81 barrels.

The above figures do not include the oil handled by the Sun Company, Paragon Company, National Refining Company, and others in Ohio. The Paragon Refining Company being the only line outside of the Buckeye Pipe Line Company that makes any reports of oil handled.

Company, Well, Location	Initial Production bbls.	Depth
Preston Oil Co. J. L. Burkholder 1	¶½	....
W. S. Sperry B. McCament 8	5	....
Bell Bros. James McCament 1	10	....
Preston Oil Co. Isaac Hays 10	5	....
Apple & Co. Mary McKee 16	5	....
Apple & Co. Mary McKee 17	5	....
Russell & Morrell Jess M. Strickler 2	*	....
Winland & Company:		
George N. Miller 12	5	....
George N. Miller 12 No. 2	5	....
Lee Asburn 1	*	....
J. E. & M. McKee 10	5	....
Davidson & Bell Bros. A. Larson 2	5	....
Wisner & Co. W. B. Hancock 7	5	....
Wideman & Co. W. & J. Gilmore 1	2	....
Snyder & Co. J. L. Harrod 2	¶¼	....

NORTHWEST OHIO COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Lucas County—		
Henry G. Gladieux M. L. Schardt 1	12	1400
Mercer County—		
Stelzer & McClure Ida J. Clay 2	3	1314
Allen County—		
George Helmkamp & Co. C. Vore 2	20	1325
Wood County—		
Greenwood Oil & Gas Co. C. M. Davis 5	50	1621
Ohio Oil Co. E. A. Carman 23	12	1297

Washington, D. C., Oct. 14.—The United States supreme court has set down for a hearing February 19, next, the case of the Oklahoma Natural Gas Company, Oklahoma Gas and Electric Company and the Muskogee Gas and Electric Company, involving rates for gas.

Sinclair Gets North Sakhalin Concession

Washington, D. C., Oct. 7.—According to an announcement made on the authority of the Soviet Russian delegation now in Peking, the Sinclair Consolidated Oil Corporation has been granted the right to prospect and develop the north half of the island of Sakhalin for a period of five years.

The concession will no doubt cause much litigation in view of the fact that northern Sakhalin altho nominally Russian territory is now under the control of the Japanese government. The United States has never recognized the legality of Japan's claims to the island but due to the policy the country has adopted toward Soviet Russia, it is not likely that the government will support the claims of the Sinclair concern.

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig

THE FRICK-REID SUPPLY CO.

Tulsa **Pittsburgh**

"Sells"
Quality Proven Supplies

From drilling engines, boilers and complete rotaries to the smallest repair part, can be secured at any Frick-Reid field store. Each product has proven its high quality, dependability and long life.

"Gives"
Superior Service

But the operator or field man gets more than proven quality supplies at an "F-R" store—he gets superior service and helpful assistance. A well stocked, centrally located warehouse insures that his equipment will be on hand when he needs it.

Remember

Stores In All Active Fields of the Southwest

New California Wells in 1922 Pass 1921 Record

Los Angeles, Cal., Oct. 14.—A total of 33 new wells started in California last week made the year's total to this date greater than the number of wells started during this same period in 1921. For the first time this year, the 1922 figures are greater than for the corresponding date in 1921.

A year's total of 1075 wells started is shown by the state oil and gas supervisor, up to Oct. 7, 1922. To the same date in 1921, 1067 wells had been started.

Regarding the concentration of new drilling in the southern fields, R. E. Collom, state oil and gas supervisor, says:

"The present trend of oil production in California indicates that all past production records for California will be broken during the year 1922. A careful estimate made by the state oil and gas supervisor shows that the production for 1922 will probably reach close to 130,000,000 barrels. The total production for 1921 was 114,800,000 barrels. About half of the oil now being produced daily comes from the three new fields in Southern California, Huntington Beach, Long Beach and Santa Fe Springs. Practically all of the new drilling in California is concentrated in these fields and as many wells are being reported ready to drill each week as were reported, on an average week, throughout the entire state during 1921."

Southern Pacific Title Mineral Rights Upheld

Los Angeles, Calif., Oct. 14.—United States Supreme Court has confirmed the decision of local courts in the suit brought by the People's Development Company against the Southern Pacific Railroad interests, involving title to minerals in several thousand acres of land in and adjoining the Coalinga field, Fresno County. The railroad company patented the lands in 1894.

The People's Development Company is said to have entered placer mining claims in 1909. When the railroad tried to oust the company, the case went into court, on the claim that the patent given the railroad excluded rights to oil that might be found on the lands. The decisions uphold the ownership claims of the Southern Pacific Company.

Los Angeles, Oct. 14.—Standard Oil Company has just completed South Whittier Community 4 at Santa Fe Springs for 4100 barrels a day, which heads the list of big producers for this field.

Santa Fe Springs Output Gains With New Work at Long Beach

LOS ANGELES, CAL., Oct. 14.—No new territory has been added, no new horizons discovered, nor unusual gushers completed during the past week. It has been a period of steady but unsensational progress.

Two outstanding events of the week are the rapid gain in output at Santa Fe Springs, and the gain in new work commencing at Long Beach. Santa Fe Springs doesn't have to add many wells to push her production up mighty fast. It's the big well field of the United States. A thousand barrel well there is almost a disappointment. The 3700 foot sand is called the "shallow pay."

George Getty stepped out with some nice new oil during the past ten days. His 4 O'Connell at Santa Fe Springs is a 1650 barrel well at 3810 feet. In Long Beach field he got a 1000 barrel well on the Cobb.

Standard Oil Company is completing three at Santa Fe Springs, Walker Community Nos 1 and 2, and Koontz 3, aggregating about 5000 barrels a day. Over at Huntington Beach the Standard got a 1100 barrel well in A-19.

Hager and Denniston have a 1500 barrel producer at Long Beach. Hub Oil Company's Rissman is being watched closely. It is an outpost well, and looks like a good producer, though not yet completed. El Paso Pacific Oil Company has what looks like a 1000 barrel well on tap.

Huntington Beach is causing no little speculation now. Two months ago it was believed that the peak of production had been reached at about 30,000 barrels a day. Since that time Amalgamated Oil Company and others have shown the possibilities of the deeper sand; several big wells have been completed, and the field is making 45,000 barrels a day. The deeper oil is also higher gravity. It is considered likely that many of the smaller wells will be deepened.

Petroleum Midway has completed Lewis 1 and Robinson 2 at Long Beach for 3000 and 2000 barrels a day, respectively. Henderson Petroleum Company's Irene is a 1500 barrel well at 3400 feet. Keck-Mutual No. 1 is about completed.

Long Beach, Cal., Oct. 14.—Cassody Oil Corporation of Fort Worth has erected a rig and will drill a well at California and Brandon Streets, this city. The location is considered especially promising.

Walter Black Placed in Charge Of Field Work for Standard

LOS ANGELES, CALIF., Oct. 14.—Walter Black has been made manager of the Operating Division of the Standard Oil Company of California, with headquarters at Los Angeles. He will have charge of the field work for the Standard in all the fields of the state.

Mr. Black is one of the best known production men in California, has come up from the derrick floor, has demonstrated his success an an executive, and is the inventor of the shaft drive connection on rotary drilling equipment.

As superintendent of the famous Baldwin lease, near Montebello, Mr. Black made an enviable record for himself. He had already established his expert ability as a production man, but in the management of this important property he perfected an organization which functioned so smoothly and efficiently that he was recognized as an executive as well as a technologist.

Recently Mr. Black has been divisional superintendent for the Standard, in the Whittier district. It was from this position that he was advanced to manager of the operating division for the whole state.

One of the tributes to W. G. Black's experience as a production expert is the shaft drive rotary. Together with Victor York, who was a drilling foreman at the time in Mr. Black's division, he invented and patented the mechanism by which the driving power is transferred to the rotary table by means of a shaft, instead of a chain. It is the well known "shaft drive," so familiar in all the rotary fields. It is said that practically all the rotaries sold in California last year were of this type.

He began his duties as manager of the Operating Division on October 3, taking the place formerly held by Cyrus Bell.

Some "Safety First" Don'ts for The "Trouble Shooting" Gang

*Barker B. Brown**

Well gangs are as old as the oil business. Every well sooner or later gives trouble of some nature and needs repair. As it requires more than one person to accomplish such work well gangs have been formed for this purpose.

Each well gang is composed of three persons, a head well puller, a floor man and a derrick man. On deep wells an extra floor man is usually used. The head well puller runs the machinery and is responsible for all work done at the well. The floor man assists the head well puller onthe floor and the derrick man does all work in the derrick. These three men

*Published in The Record, issued by Associated, Pacific and Amalgamated Oil Companies.

California Supervisor Predicts 130 Million Barrels for State in 1922

LOS ANGELES, Oct. 14.—One-hundred and thirty million barrels of crude oil will be produced in this state during 1922, according to estimates by R. E. Collom, State Oil and Gas Supervisor. Last year the state made 114,800,000 barrels. Petroleum Institute estimates the daily production of this state now at over 400 thousand barrels, by far the highest production in California's history.

Mr. Collom's resume of the situation, dated last Saturday, shows that "Practically all of the new drilling in California is concentrated in these fields", Long Beach, Santa Fe Springs and Huntington Beach.

On October 1, Long Beach had 102 wells, making 94,000 barrels a day. At same time, 137 wells were drilling or re-drilling in that field, although it is probable, says Mr. Collom, that the peak of production has been reached at Long Beach.

On the same date, Huntington Beach had a daily production of 45,000 barrels, from 167 wells, with 108 wells drilling.

Santa Fe Springs was leading the fields in average production per well, with 51,000 barrels a day from 41 wells. One hundred and twenty six wells were drilling on October 1.

One thousand and seven hundred wells are shut in, in California, as shown by Mr. Collom's report, representing a daily potential production of 61,517 barrels.

---

performing their particular duties are as one piece of machinery.

The well gang could be well termed "trouble shooters." There are many ways in which a well may give trouble and require a visit from the well gang. The rods may part, the pump may sand up, rocks lodge between ball and seat, a hole may wear in the tubing, pump wear out, tubing part, belt break, and numerous other things.

As a rule each well gang gets several moves each day to different wells that are not producing their normal output or perhaps are not producing at all. This places the well crews under different working conditions and gives them a chance to work with wells operated by steam, gas engine, air or electric motor. The floors, ladders and rigs in general are more or less different, due to age, wear and varying methods used in repair. It is well for each man in the crew to think "Safety First" at all times.

The following list of safety hints should be observed by every well gang.

(1) When the bull rope is being put on the bull wheels and the floor man is aiding by pulling up or down on the bull wheel pegs, he should always pull with his hands. He should never push down by standing with one or both feet on the pegs. When the rope goes on the bull wheels the pegs may catch in his clothing or strike his wrist or ankles, causing serious injury.

(2) The derrick man should always get off the beam, when the pitman is being taken off the wrist pin to lower the beam for pulling a well.

(3) Do not stand under polish rod or any rod when it is being dragged out of the derrick as there is always more or less danger of the rods dropping out of the elevators.

(4) Never take hold of a polish rod either to unscrew it or drag it aside with a loose stuffing box above the hand. The box often slides down the polish rod suddenly and cuts deep wounds in the hand.

(5) Do not strip the oil off rods with the hands. Use a piece of an old tire casing, a soft rope, or a piece of an old belt.

(6) The derrick man should always take hold of runner and not the steps when ascending or descending the derrick ladder.

(7) Avoid stepping on braces and girts in old rigs when this is not necessary.

(8) Where there is a bull rope trip in a rig always use it. Where trip has been torn out and a crowbar is used to throw the rope, it should be done very carefully and the missing trip reported to the proper authority as soon as possible.

(9) Never throw the body over the brake at any time. This is very dangerous, as the brake often flies back with such force as to result in serious injury. Stand at the outer side of the brake and force down with hands, keeping face and hands free from brake.

(10) Any broken braces, girts, floor boards, weak bull wheels or other dangerous equipment around the rigs should be reported to the foreman at once.

(11) Tools in bad condition should not be used. Report them for repairs or renewals.

(12) The man in the derrick should promptly report any loose or broken boards or timbers. Falling material or tools cause many injuries.

There are several unpleasant features about work in the well gang. Although not essentially a dangerous occupation, there is always the chance of an occasional injury. Along with the possibilities of injury comes the unpleasant feeling of going home with splashes of crude oil covering the hands and face to say nothing of the oil and dirt soaked clothes.

Yet with the hardships and dangers there is a fascination in the well gang work. Having actual experience as a well puller one learns much about the oil industry as well as the individuality of each well. One learns the manipulation of oil well machinery which prepares him to become a tool dresser and later a driller. The well gang is sure of steady employment and the ambitious well-puller is always in line for something better.

Los Angeles, Calif., Oct. 14.—Associated Oil Company is preparing to make a test next spring on a 5000-acre tract on the Cold Bay Peninsula, Alaska, according to current reports. Equipment is being moved to the site, and drilling will begin when the winter breaks.

Standard Oil of California is also prospecting in Alaska, and it is reported that drilling has already been started by this company, along the southern coast.

EVER since the early

* * *

DAYS in Pennsylvania

* * *

WHEN a driller had to

* * *

BE an Irishman or a

* * *

PA. dutchman to get by. Crescent

* * *

HAMMERED well bit steel

* * *

HAS held its own—

* * *

THAT'S why we are now

* * *

MAKING fish tail bits out

* * *

OF that steel.

* * *

IT'S the best steel made

* * *

AND this, coupled with

* * *

GULFCO workmanship,

* * *

MAKES Gulfco fishtail

* * *

BITS the best bits you ever

* * *

STUCK in a hole.

* * *

DOUBLE the ordinary service—

* * *

THAT'S what Gulfco Crescent

* * *

FISHTAIL bits will do.

* * *

WRITE us for details and

* * *

PRICES.

Gulf Coast Machine and Supply Co.

BEAUMONT, TEXAS

MEXICAN FIELDS

MEXICAN PRODUCTION

The daily average production of crude oil in the Mexican fields for the past two weeks is divided about as follows:

	Week Ending Oct. 7	Week Ending Sept. 30
Cerro Azul-Toteco	111,000	115,000
Tierra Blanca	51,000	51,500
Potrero del Llano	32,000	31,000
Central Amatlan	30,000	33,000
Los Naranjos	9,500	12,000
San Geronimo	4,500	4,200
Tepetate Casiano	7,200	7,000
Chinconcillos	3,500	3,400
Alamo	2,000	3,200
Total light oil	250,700	260,300
Panuco Dist. (heavy)	100,000	104,000
Total Mexico	350,700	264,300

Tampico, Oct. 14.—There were two deaths from yellow fever in the Tampico district the past week. One of the deaths a Mexican, occurred in Cascajal, while the other was the death of a Mexican woman at the Panuco camp of the Mexican Gulf Oil Company. It is thought she contracted the disease at Cascajal while en route Tampico to Panuco. Health authorities are concentrating attention on Cascajal in an effort to stamp out the disease. During the past few weeks, deaths have averaged one a week.

Waste Oil From Burned Well Is Now Recovered

Tampico, Oct. 14.—The International in the past three months has run about 800,000 barrels of oil from sumps about the location of No. 4 Potrero del Llano, which burned late in 1918.

When the well was burning much oil ran loose and was caught in sumps the first of which were built when efforts were being made to control the fire. There are six sumps and two of them are now running about 5000 barrels a day. As much as 8000 barrels have been run daily from this source.

The oil in the sumps tests 11.7 gravity and it is necessary to mix southern light crude with it so it will handle. The company has thus been enabled to add to its daily production since salt water ruined most of the older fields and considerable oil can yet be taken from the sumps.

COMPLETIONS IN MEXICO

Tampico, Oct. 14.—Following are the late completions in the Mexican fields:

New England Fuel Oil Co.'s Pazzi 7	5000	1885
Mexican Gulf Oil Co. El Barco 1	*	2490
Cortez Oil Corp. Lot 199 Amatlan	1000	2100
Texas Co. Paz 2	3000	2300
Corona's 2 Lot 6 Paciencia y Aquacate	*	2230
East Coast Oil Company:		
Idola 701	*	....
Willis 423	150	2255
Cia. Financiera's Chinconcillo 21	400	2235
Aguila's 5 Palma Sola	*	2750

High Water and Rains Holding Up Field Work

Tampico, Oct. 14.—High water and the rains continue to curtail field operations in the Mexican oil fields, especially in the Panuco district, where the production has been materially cut on this account. The weather has had little effect on the production in the Southern fields, although drilling operations are affected, largely on account of getting in material.

The continued rains caused the layoff of the crews in Zacamixtle, which had been tearing up pipe lines for the Huasteca and the International. The Huasteca is tearing up a line from Zacamixtle to Cerro Azul to be stored, and it is thought part of the material in the International line being taken up will be used at Panuco.

Texas Company Sending Scout to South America

Tampico, Oct. 14.—The Texas Company of Mexico has started C. C. McDermond to Panama and the northern part of South America on a general scouting expedition. Mr. McDermond has been field scout for The Texas Company in Mexico for some time.

The company has holdings in Venezuela and the dispatching of Mr. McDermond to South America has led to the belief that The Texas Company will start operation in that country in the next few months.

SINCLAIR OILS

Petroleum Products of Quality

SINCLAIR OILS

GASOLINE LUBRICANTS
KEROSENE PARAFFIN WAX
NAPHTHA FUEL OIL
GAS OIL ROAD OIL

SINCLAIR REFINING COMPANY
Cable Address "Sorcorp"
111 W. Washington St., Chicago Ill.
SINCLAIR OIL BUILDING 45 Nassau St. New York

Another Big Decline in Mexican Exports

Shipments in September fell off more than 2,800,000 barrels—production off

TAMPICO, Oct. 14.—Exports of oil from Mexican ports during the month of September reached a total of 11,366,755 barrels, a decline of more than 2,800,000 barrels when compared with the previous month. Only three companies exported more than 1,000,000 barrels, against six companies in that class last July.

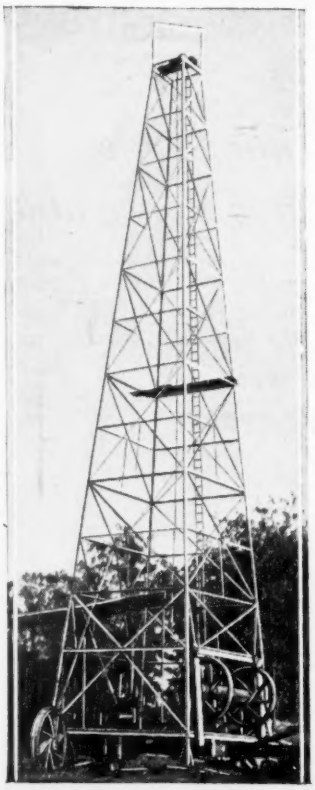
While shipments are falling off, the production is showing a still greater decline. It is estimated that only 11,000,000 barrels of oil were produced in September, while in August the production was estimated at 13,000,000 barrels. Thus it will be seen that storage has been drawn upon for more than a million and a quarter barrels in sixty days.

The decline in production in the south fields is steady, while the daily average had been showing an increase in the Panuco heavy oil district until the rainy season set in. The last week in September saw a heavy decline in production at Panuco on account of the rains. Panuco the first week in October showed a production of about 100,000 barrels a day against around 120,000 barrels daily early in September.

The shipments of the Mexican Gulf in September fell below 1,000,000 barrels for the first time this year. The International also fell below that figure for the first time, although the International showed a bigger decrease than did the Mexican Gulf.

The record by companies for the nine months of the year follow:

Company—	September	August	July	June	May	April	March	February	January
Huasteca	3,114,100	3,510,330	3,514,655	3,195,855	3,245,190	3,017,920	2,969,905	2,550,840	3,556,344
Transcontinental	596,010	560,570	1,077,860	1,532,050	1,903,715	2,077,230	2,878,940	3,052,550	3,499,428
Aguila	1,203,260	1,628,210	1,884,075	2,325,430	2,195,390	2,453,925	1,697,565	1,932,230	2,110,551
International	535,770	1,057,345	1,858,590	1,452,355	1,802,695	1,441,570	1,550,285	1,887,320	1,655,147
Corona	1,285,880	1,665,085	1,626,640	2,019,055	1,843,105	2,005,500	1,429,170	1,355,730	1,169,289
Mexican Gulf	840,525	1,196,800	1,670,570	1,156,195	1,874,325	1,959,220	1,386,890	1,423,585	1,533,784
Agwi	700,980	650,990	560,045	411,200	880,905	1,242,930	941,045	473,505	622,820
Freeport	770,355	699,285	752,505	757,670	573,270	1,079,230	862,785	1,062,880	688,287
Texas	785,865	690,055	909,955	982,705	931,945	666,165	731,150	1,116,790	877,723
Cortez	159,730	170,555	773,590	911,370	997,040	377,575	680,445	1,845	372,306
National Oil	.....	.....	.....	.....	.....	155,410	443,965	140,030	152,789
East Coast	265,165	396,580	525,930	382,500	358,695	430,730	414,510	472,695	341,923
New England	61,210	174,740	324,655	375,015	486,175	287,860	408,115	302,730	418,469
Penn Mex.	.....	.....	627,895	757,760	595,800	265,900	190,075	188,340	75,858
Pierce	155,200	94,550	261,820	46,270	26,075	66,160	181,680	111,960	115,685
Nat. Petroleum	129,450	259,000	174,065	73,055	135,610	186,935	146,425	95,800	105,945
Island	141,335	236,395	313,815	206,605	499,850	72,195	136,290	378,025	755,752
Continental Mex.	123,020	449,955	141,480	69,415	92,555	65,055	123,330	.....	126,467
U. S. Mex.	.....	109,230	50,230	50,115	95,900	100,790	51,325	194,235	250,177
Interocean	52,480	57,870	.....	101,150	50,505	50,220	50,165	50,640	152,845
Swiftsure	283,750	334,390	48,820	.....	.....	.....	.....	60,740	132,300
Tal Vez	.....	53,915	60,620	121,095	.....	.....	.....	.....	.....
Panuco-Boston	162,670	.....	.....	.....	.....	60,860	.....	.....	.....
Cosmos	.....	.....	.....	37,615	.....	.....	.....	.....	.....
Total	11,366,755	13,948,850	17,157,815	16,964,480	18,588,745	18,063,380	17,274,060	16,852,470	18,363,980



"INTERNATIONAL"

STEEL

DERRICKS CROWN BLOCKS

WALKING BEAMS and BULL WHEELS

"Galvanized"

"INTERNATIONAL"

SERVICE

CUSTOMER SATISFACTION

The International Derrick and Equipment Company

186 East Broad Street, Columbus Ohio

BRANCHES:

208 Atco Bldg., Tulsa, Okla. 319 Dowling St., Houston, Texas

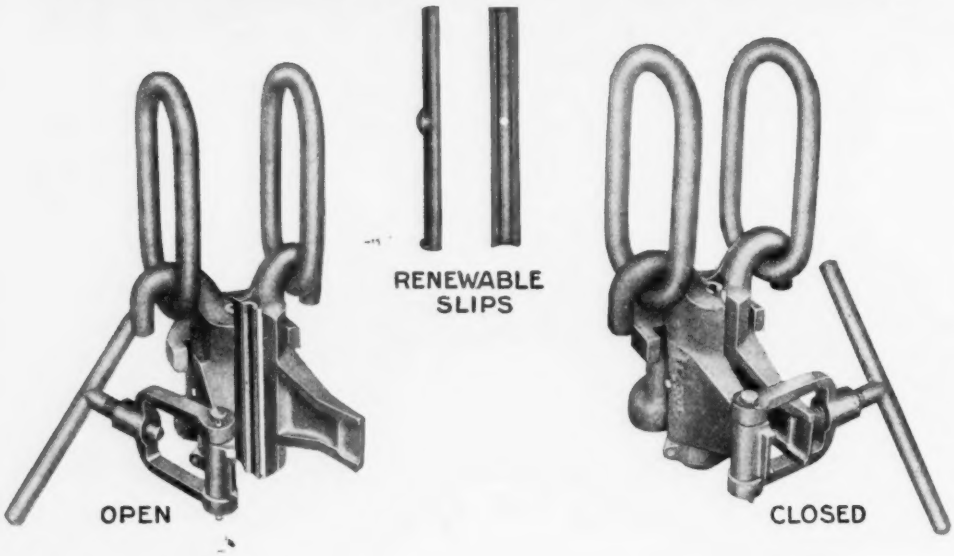
303 Sinclair Bldg., Shreveport, La. 1123 Eye St., Bakersfield, Cal.

2172 East Seventh St., Los Angeles, Cal.

EXPORT

Vivian Bond & Company, 68 Beaver St., New York City

IDEAL
WIRE LINE CLAMPS



Perfect Balance
Positive Grip

Parts Interchangeable
Slips Renewable

Note also simple method of retaining links in locked position as well as auxiliary groove for gripping sand line. Provision made for jockey stick connection.

NATIONAL SUPPLY Co'S

WILDCATS FROM ALL SECTIONS

Deeper Pay in Brown County Furnishes Two New Wells

FORT WORTH, TEXAS, Oct. 17.—The deeper producing horizon in northern Brown County contributed two oil producers last week with a combined initial production of 125 barrels. These two wells were brought in by the Brownwood Producing and Refining Company on the A. J. Williams farm. Well No. 5 was recently given a shot of 40 quarts from 2420 to 2440 feet and is showing good for 50 barrels while cleaning out a bridge formed at 2405 feet. The company's No. 6 was shot with 80 quarts from 2460 to 2480 feet, and is expected to make 75 barrels when the hole is cleared. The latter well picked up the Caddo lime at 1770 feet. A small pipe line transports the oil produced in this field to independent refineries located at Brownwood.

In the shallow Moran field in the southeast corner of Shackelford County where considerable interest has been centered lately owing to the large initial production obtained from wells completed from the 600-foot oil sand, two new oil producers and five dry holes were reported during the past week. The Texas Company brought in its No. 2 Osborne making 60 barrels from 12 feet of pay picked up at 598 feet, and a 40-barrel well was scored by Meredith and associates on the English farm. The latter well is the third test drilled and picked up the sand from 588 to 598 feet. The same interests' No. 2 English failed to find the pay, and have abandoned same at 610 feet. The other dry holes completed last week were scattered over the field. Six additional locations and drilling wells were reported from this field during the past week.

In the Dalton pool in Palo Pinto County, the Dalton-Clark Oil Company's No. 1 H. Green, located about one mile north and slightly east of the discovery well, is reported to have struck a good showing of oil in a sandy shale formation at 3975 feet, and is now fishing for tools after drilling to 4035 feet. The Miller-Dalton Oil Company's No. 1 R. S. Dalton, which is located about two miles southeast of the Dalton producer, is showing good for 2,000,000 feet of gas from a lime pay at 3795 feet, and early this week was drilling in a sandy gray lime below 3815 feet. Since dry holes have been drilled on the north, west and south of the discovery well, some hopes are held for production being obtained in the general direction of the Miller-Dalton test. The Magnolia Petroleum Company's No. 1 Ferris-Dalton, located 700 feet west and south of the only producer in the pool, has reached a depth of 4400 feet without showing for a producer, and will probably be carried down to 4500 feet, according to officials of the company. Early this week drilling was going on in a black lime at 4415 feet.

I. B. McGarr and Sons et al's No. 1 R. S. Dalton, located about one and a half miles south of production, was shot with 380 quarts from 4030 to 4150 feet resulting in gas production increasing to 2,000,000 cubic feet. A second shot of 140 quarts from 3860 to 3900 feet in a gray sandy lime formation increased the flow of gas to 5,000,000 cubic feet. This well has a total depth of 4225 feet. Owens and Burkett's No. 1 Gray-Sanger, located about one and a half miles north of the Dalton producer, is reported to be showing considerable oil in the hole while drilling in a sandy gray lime below 4200 feet.

Central West Texas Wildcats

COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Brown County—		
Brownwood Producing & Ref. Co.'s A. J. Williams 5.....	50	2450
Brownwood Prod. & Ref. Co.'s A. J. Williams 6...	75	2480
Palo Pinto County—		
Hart Oil Corp.'s Mrs. J. B. Hart 5	*	3170
Mitchell County—		
Chal. N. Daniels et al's L. C. Lesure 1	50	3097
Shackelford County—		
Meredith et al's English 2....	*	610
Meredith et al's English 3..	40	598
Meredith et al's St. John 1.	*	615
A. A. Smith's Pool 1	*	660
The Texas Co.'s Osborne 2...	60	610
Unknown's Blankston 1	*	690
Wallace et al's Waters 1	*	580

DRILLING REPORT

BROWN COUNTY—Bailey et al's Mrs. M. L. Cleveland 1, sd 1540 ft; J. B. Turner 1, sd 1730 ft. Brownwood Prod. Co.'s M. M. Cox 1, rig. Central Oil & Dev. Co.'s Busby 1, timbers. Canyon Oil & Gas Co. & T. B. Slick's Starr 1, plugging back from 3045 to 1505 ft; Starr 2, rig; Elsberry 1, dr 760 ft. Fox & Lamb's M. M. Cox 1, dr 1165 ft. Infield Pet. Co.'s T. M. Windham 2, sd for water 420 ft. Jordan Pet. Co.'s Sam Sparks 1, showing oil and water from 1275 to 1280 ft, sd for cas 1405 ft. Junior O I Co.'s Byrd 1, sd for water 1340 ft. Kirk & Braner's Hickman 1, dr 1875 ft. Maher Bros.' Bohara 1, sd 2155 ft. Miller & Malloy's Hickman 1, sd 1515 ft. Omaha Southern Pet. Co.'s T. M. Windham 1, rig. Price & Manteris et al's J. H. Buzbee 1, sd for cas showing oil 2845 ft. Preston Oil Co.'s M. M. Cox 2, dr 1400 ft; Cox 3, rig. Pilgrim Oil Co.'s (formerly C. R. Cox) Willis 1, stripping cas 920 ft. Scott & Anderson's W. R. Chambers 1, sd for water 2370 ft. Stout Oil Co.'s O. B. Fomby 1, good for 25 bbls oil after shot, fsh tools 2440 ft. Tippett & Sons et al's J. W. Taber 1, plugging back from 2175 to 2060 ft., for shot. Wallace & Davidson's Eddrington 1, sd for cas 2510 ft. Williamson Oil Co.'s M. M. Cox 2, preparing to drill in 2445 ft.

CALLAHAN COUNTY—Amis et al's R. L. Medford 1, dr 375 ft. H. A. Bible's A. L. Huntington 1, machine. Jack Bettis et al's McCool 1, sd 390 ft. Byron-Union O I Co.'s Hennessey 1, sd 3315 ft. W. R .Cox et al's Ramsey 2, dr 125 ft. Dudley Oil & Gas Co.'s Hugh Moore 1, dr 1225 ft. Edgett Pet. Co.'s T. W. Woody 1, sd 1370 ft. Hodges et al's Mrs. R. D. Williams 1, dr 225 ft. Hart & Son et al's E. W. McCullum 1, dr 360 ft. J. L. Kennedy's H. Wagley 1, dr 155 ft. Lincoln & Wallace's J. S. Hart 2, machine. Martin & Westerfold's A. L. Huntington 2, making 5 million ft gas. Mexia Square Deal Oil & Gas Co.'s J. H. Owens 1, dr 175 ft. Moore, Sloan et al's T. J. Brooks 1, set cas 275 ft. Morgan Ridge's J. S. Hart 4, dr 235 ft. McClung et al's J. C. Dyer 1, dr 455 ft. Norman Drilling Co.'s Harris 1, set cas 3380 ft. Pennant Oil & Gas Co.'s Albin 2, dr 2235 ft. Homer Peeples et al's Hughes 1-A, sd 515 ft. Petroleum Producers Assn's D. D. Jones 1, machine. Ramsey & Son's J. S. Hart 1, dr 85 ft. F. W. Stone & Co.'s McDermitt 1, sd for water 2945 ft. Tarkington & Hutton's A. L. Huntington 1, dr 275 ft. B. F. Taylor et al's W. D. Clinton 1, sd 280 ft. Ungreen, Simons & Brook's R. C. Wylie 1, sd 475 ft.

HOOD COUNTY—Cameo Oil Co.'s Williams 1, sd for water 1045 ft. Iowa Bankers Oil Co.'s I. A. Rylee 1, dr 175 ft. B. H. Cogsdell et al's D. W. Campbell 1, rig.

JOHNSON COUNTY—Johnson County Oil & Dev. Co.'s Rhodes 1, showing oil, sd for cas 3755 ft.

PALO PINTO COUNTY—Andrews & McFarland's D. C. Harris 1, sd for water 760 ft. Will Anderson et al's Mrs. W. P. Anderson 1, set cas 3515 ft. Ashe Synd.'s Mrs. J. B. Hart 2, dr 430 ft. Black-Dalton Oil Co.'s H. H. Green 1, rigged up and sd. Buffalo-Brazos Oil Co.'s R. S. Dalton 1, sd 1160 ft. Big Four O I Synd.'s Penington 1, rig. California - Dalton Oil Co.'s R. S. Dalton 1, fsh cas 3895 ft. Canadian Pet. Co.'s Pennington 1, sd 4100 ft. Clark & Burch's Mrs. L. F. Conklin 1, showing oil and gas dr 2010 ft. Cobb, Sivall & Johnson's J. H. Robinson 1, fsh tools 455 ft. S. C. Cunningham et al's B. M. Poer 1, lcn. Dalton-Clark Oil Co.'s H. H. Green 1, fsh tools showing oil in sandy shale at 3975 ft, td 4035 ft. Dehart & McKay's Seaman 1, sd 950 ft. Dalton Petroleum Co.'s R. S. Dalton 1, rig. Dalton Oil & Gas Co.'s R. S. Dalton 1, fsh 3575 ft. Dalton Oil Co.'s R. S. Dalton 2, fsh collapsed cas 3715 ft; Dalton 3, rig; Dalton 4, rigged up and sd. Dittman Oil & Gas Co.'s Hughes Heirs 1, sd 3715 ft. Empire Gas & Fuel Co.'s Gill 3, machine. Gibson, Sinclair & Strong's J. T. Holt 1, sd for water 1285

RECOGNIZED PETROLEUM GEOLOGISTS

ft. Hart Oil Corp's Mrs. J. B. Hart 8, dr 2440 ft; Hart 9, showing oil after shot 280 qts from 3230 to 3270 ft, co bridge. I. P. Harris et al's J. T. Holt 1, timbers. Heydrick Oil Corp.'s Caudill 1, rig. J. B. Hedrick et al's Huey 1, mudded off gas to drill deeper 940 ft. A. A. Haubert et al's Tipton 1, sd 360 ft. H. N. Harris et al's G. N. Weldon 1, sd for water 1695 ft. E. G. Johnson et al's Howard 1, sd 2570 ft. Littlefield Oil & Gas Co.'s Smith 1, crooked hole 3190 ft. Miller-Dalton Oil Co.'s R. S. Dalton 1, making 2 million ft gas from lime at 3795 ft., dr in sandy gray lime 3810 ft. Milton & Floyd's Malry 1, sd 750 ft. Magnolia Petroleum Co.'s Ferris-Dalton 1, dr in black lime 4410 ft; Ferris-Dalton 2, sd 1240 ft. I. B. McGarr & Sons et al's R. S. Dalton 1, making 5 million ft gas after two separate shots, td 4225 ft. S. W. Manning et al's Hitson 1, dr 440 ft. McPhail Oil Co.'s Eubanks 1, ur 1485 ft. Nash & Windfohr's Eubanks 1, ur 3410 ft. Nelson Oil Synd.'s Finch 2, fsh cas 3160 ft. Owen & Burkett's Gray-Sanger 1, showing lots of oil and some gas while dr in sandy gray lime 4200 ft. Phoenix Oil Trust's R. S. Dalton 1, sd for water 1675 ft. Producers Oil & Gas Co.'s R. S. Dalton 1. dr 200 ft. Palo Pinto Oil Co.'s Stuart Bros. 2, dr 846 ft. Roddy et al's Carter 1, fsh tools 1444 ft. Ross & Brooks' Pennington 1, making 1 million ft gas, sd 4120 ft; J. I. McClure 1, rig. O. R. Rochelle's Fee 1, sr 3995 ft. A. T. Strong & Co.'s L. E. Seaman 1-A, hole full oil, sd 3160 ft. Rufus G. Smith's Seaman 1, hole full oil, co to test on pump 3170 ft. Silver Rock Oil Assn.'s Moseley 1, rig. Southern States Oil Co.'s Belle Raquett 1, set cas 2430 ft. Sands & Thompson's Fee 1, dr 1440 ft. Sun Co. & Pender et al's Mrs. J. B. Hart 2, lcn. Marshall Spoonts' J. B. Doyle 1, spd and sd. J. W. Sappington et al's R. S. Dalton 1, rig. Southard Pet. Co.'s W. M. Bird 1, rig. Scott & McClure's R. A. Wheeler 1, rigging up. H. L. Singleton et al's W. Holt 1, lcn. Tibbetts, Lawson & Ashburn's J. K. Weldon 1, sd for water 695 ft; McClure 1, timbers. Thompson, Senter & Nance's Logsdon 1, sd 685 ft. D. A. Upham et al's Belding 3, sd 3775 ft; Belding 5, fsh cas and tools 1980 ft; T. R. Ennis 1, dr 1440 ft; J. H. Bradford 1, rigging up. F. M. Watson Jr. et al's Clepper 1, lcn. Webb & Murphy et al's P. Dalton 1, spd and sd. Youkan Oil Co.'s Seaman 1, spd and sd.

PARKER COUNTY—Capital Petroleum Co.'s McFarland 1, sd 1505 ft. Dalsa Oil Co.'s Reynolds 1, dr 2120 ft. Dittman-Thompson et al's Fondren 1, rig. Hale & Knight's Davis 1, sd 2905 ft; Bradley 1, sd 4500 ft; Mankins 1, dr 3260 ft. Jackson & Cathcart's Emberlin 1, sd 3005 ft. I. B. McGarr et al's Estes 1, sd for cas 3290 ft. Talbert Drilling Co.'s Gilbert 1, spd and sd. for water.

SHACKELFORD COUNTY—Brown & Co.'s J. F. Sedwick 1, sd 2210 ft. Beane Oil Corp.'s Merriott Heirs 1, sd 1870 ft. Dawson & Hubbard's J. D. Fite 1, rig. Empire Gas & Fuel Co.'s Brazzell 1, ur cas 2755 ft. Gilliland & Griffith's W. A. Carter 1, rigging up. E. O. Landreth Co.'s Brazzell 1, dr 3220 ft; Witty 1, dr 2950 ft; Witty 2, dr 2700 ft; Wm Poindexter 1, dr 1420 ft. Hale et al's McClendon 1, dr 555 ft. Humble Oil & Ref. Co.'s R. A. Elliott 1, rigging up to resume dr, td 1850 ft. Lynch 1, dr 2890 ft. Ibex Oil Co.'s Wm Poindexter 6, plugging off water sand 4160 ft to shoot black lime pay. Scott & Witt's J. V. Trueheart 1, sd 3625 ft. Murphy & Bolanz's Conrad 2, ur 3625 ft. The Texas Co.'s Osborne 3, lcn; Wild B-4, dr 330 ft; Tankersley 1, dr 1200 ft. Revere Oil Co.'s English 1, fsh tools 475 ft. S. D. C. Co.'s Fite 1, dr 1525 ft. Carl Scribner's Webb 1, dr 435 ft. Sam J. Scupas' Rice 1, dr 435 ft. Standcliff et al's Prichard 1, dr 465 ft. H. C. McGillis' Mason 1, fsh tools 485 ft. Welch Bros.' J. H. Elliott 1, dr 390 ft. Weaver & Tanner's McClendon 1, dr 150 ft. White et al's Prichard 1, spd and sd.

TARRANT COUNTY—Erie Oil & Gas Co.'s Cartwright 1, dr 375 ft. Fort Worth Oil Co.'s J. W. Wray 1, dr in shale 4290 ft. Texland Prod. Co.'s Dr. W. H. Davis 1, rig. Souse et al's Henderson 1, dr 1700 ft.

VALVERDE COUNTY—Fensland Oil Co.'s Abb Rose 1, ur cas and co 1870 ft. Huber Oil Co.'s Whitehead 1, sd for fuel 1050 ft. Reclamation Oil Prod. Co.'s J. B. Moore 1, sd 2630 ft. G. Cook et al's Bedell Moore Estate 1, sd 605 ft.

MITCHELL COUNTY—Mitchell County Oil Corp.'s W. H. Badgett 1, derrick and engine house collapsed, gas production receding, now doing 30 million ft and 5,000 barrels salt water, td 1100 ft. California Co.'s T. C. Richardson 1, dr 1010 ft. Colorado-Texas Pet. Co.'s W. L. Foster 2, sd 2610 ft. Crescent Drilling Co.'s Nat Smith 1, fsh cas and tools 2440 ft. Underwriters Prod. & Ref. Co.'s T. P. Land Co. 2, sd for shot 3150 ft. A. T. Spaulding et al's Zilpha Morrison 1, sd 2555 ft. Flesher Pet. Co.'s P. C. Coleman 1, sd for water 2410 ft. Maxwell & Johnson's J. L. Jones 1, sd for water 2470 ft; F. H. Stewart 1, sd for water 3070 ft. Western Pet. Co.'s Etta Brennand 1, hole full water probably abn 3815 ft. Henry Riley's W. A. Murphy 1, plugging back from 3560 to 2400 feet to shoot

ROBERT T. HILL
GEOLOGIST
816 Magnolia Building
DALLAS, TEXAS
200 Currier Building
LOS ANGELES

SWAN UNDERREAMERS

AT YOUR SUPPLY STORE
Made By BRIDGEPORT WICHITA

A. S. HENLEY
Petroleum Engineer and Geologist
Operation, management and geological report on properties
417 Carter Bldg. Houston, Texas

DORSEY HAGER
Petroleum Geologist and Engineer
Geological Examinations
Appraisals and Valuations
Pacific-Finance Bldg., Los Angeles
522 Fifth Ave., New York

ALEXANDER DEUSSEN
CONSULTING GEOLOGIST
Reports—Appraisals—Management
Texas and Louisiana Oil Properties
504 Stewart Bldg. Houston, Texas

EUGENE COSTE & CO.
Petroleum Engineers and Geologists
DALLAS, TEXAS
Dallas County State Bank Building

SAMUEL J. CAUDILL
Geologist—Petroleum Engineer
Valuation - Depletion
For Financial or
Income Tax Purposes
818 Atlas Life Ins. Bldg., Tulsa, Okla.

EDWIN B. HOPKINS
CONSULTING GEOLOGIST
Examinations and Appraisements of Petroleum Properties
25 Broadway
NEW YORK CITY

GEO. C. MATSON
Petroleum Geologist and Engineer
Geological Surveys
Appraisals for Taxation or Financing
Phones Osage 2049 - 1833
408 Cosden Bldg. Tulsa, Okla.

F. J. S. SUR
Petroleum Geologist and Mining Engineer, Valuations, Appraisals, Inspections and Explorations.
622 Bedell Bldg. San Antonio, Texas

OIL FIELD EQUIPMENT

WIGGINS SUPPLY CO.
Dealers in New and Second-Hand
Oil, Gas and Water Well Supplies, Pipe and Oil Field Machinery
Beatty Building Houston, Texas

FOR SALE: One No. 222 Keystone Strain Rod Power with No. 1 Idler and 16 foot Steel Band Wheel. Good condition. $375.00 f. o. b. Guffey, Texas.
Box 1058
Beaumont, Texas

PIPE, PIPE, PIPE
We offer for immediate shipment 100,000 feet 2-in at 8 cents, 65,000 feet 2½-in at 10 cents, 50,000 feet 3-in at 15 cents, 12,000 feet 2½-in drill at 22 cents, 15,000 feet 3-in drill at 28 cents.
TEXAS SUPPLY COMPANY
2016 Loraine St. Houston, Texas

C. H. Smith, Pres. and Treas.
Mrs. J. B. Moore, Vice-Pres.
A. L. Eastham, Sec.
Beaumont Well Works Co.
Oil, Gas and Water Well Supplies
Cor. Laurel and Magnolia
Beaumont, Texas

"First Exclusive Iron Dealers In Texas"
F. W. HEITMANN COMPANY
113 Main St., Houston, Texas

Gardner Steam Pumps
National Pipe, Boiler Tubes
Fittings, Valves, Packings
Beltings, Wire Rope
Drilling Cables, Bull Ropes

We carry a complete stock of the above commodities at all times and can ship immediately

lime pay. Magnolia Petroleum Co.'s W. L. Foster 1, dr 2000 ft. Petroleum Operators Assn's E. Morrison 1, rigging up. Ray Knight's Ed Dupree (Section 33) 1, rig abondoned. S. A. Sloan et al's Sam Smart 1, rig. C. F. Kelsey et al's W. H. Badgett 1, timbers.

BORDEN COUNTY—Broderick & Calvert's A. J. Long 1, lcn. C. W. Jones Drilling Co.'s F. M. Long 2, dr 2095 ft.

BREWSTER COUNTY—Brewster Oil Co.'s Kokernot 1, sd 1675 ft. Marathon Oil Co.'s Nigger Creek 1, sd 2360 ft; Dugout Creek 1, sd 2535 ft. Portland Oil Co.'s States 1, sd 2100 ft. Nine Points Oil Co.'s Perato & Finnell 1, dr 1500 ft. Arco Development Co.'s H. L. Kokernot 1, sd 3440 ft.

COKE COUNTY—Mexia Equitable Oil Co.'s W. J. H. Hodges 1, dr 1095 ft.

CONCHO COUNTY—The Texas Co.'s Houston Bros 1, spudding. Texas-Meers Oil Co.'s Schultz 1, sd 1410 ft.

CRANE COUNTY—B. M. Hatfield Oil Co.'s University 1, sd 315 ft. Texas-Mexia Drilling Synd.'s W. W. Waddell 1, rigged up and sd.

CULBERSON COUNTY—Consolidated Sulphur Co.'s Johnson 1, sd 115 ft. G. W. Gossert's Sayless 1, sd 460 ft. T. W. Owens' Jones 2, sd 2845 ft. J. D. Wesner's Sayles 1, sd 2285 ft.

DAWSON COUNTY—Lamesa Oil & Gas Co.'s John Burns 1, rigging up to dr to 3000 ft, td 2095 ft.

ECTOR COUNTY—Farmers Oil Co.'s Andy Newman 1, sd repairs 1315 ft.

EL PASO COUNTY—Burns & Knight Fee 1, sd 1490 ft; Fee 2, timbers.

FISHER COUNTY—Mineola Oil Co.'s Lanious 1, dr up cas shoe 3220 ft.

GARZA COUNTY—Woodward Oil Co.'s J. M. Boren 1, sd 1965 ft.

GLASSCOCK COUNTY—General Oil Co.'s L. S. McDowell 4, showing oil from gray-lime setting cas with packer to test 3785 ft. Cushing Ranch Drilling Co.'s W. F. Cushing 1, dr 4060 ft; Sparkman 1, fght cavey hole 830 ft. Associated Prod. & Ref. Co.'s C. I. Brunson 1,sd 2935 ft.

HUDSPETH COUNTY—Boole Oil Assn's Gardner & Moseley 1, sd 1105 ft. Cactus Oil Co.'s Jones 1, sd 615 ft. Hueco Basin Oil Co.'s University 1, sd 2565 ft.

HOWARD COUNTY—Fensland Oil Co.'s C. D. Reed 1, tsh bailer 3170 ft. Maxwell & Johnson's Wm. Capps 1, sd 3265 ft. Big Springs Prod. Co.'s Mable O. Quinn 1, sd 3645 ft. General Oil Co.'s Roberts 1, pul cas to abn 3155 ft.

JONE SCOUNTY—Anson Oil & Dev. Co.'s C. B. Brown 1, sd 1855 ft. C. H. Oil & Dev. Co.'s J. A. Collum 1, showing oil in lime, sd for cas 2970 ft. Magnolia Petroleum Co.'s S. ur cas 2895 ft.

JEFF DAVIS COUNTY—Magnet Oil Co.'s Tatum 1, sd 975 ft.

LOVING COUNTY—Ramsey Oil Co.'s Russelll 1, sd 4485 ft; Russell 2, sd 705 ft.

MARTIN COUNTY—Cox Realization Co.'s George Walcott 1, sd 2070 ft.

PECOS COUNTY—Bower et al's University 2, sd 1705 ft. A. S. Luse's G. W. Allison 1, sd 205 ft; Hook et al 1, sd 305 ft. Oregon-Texas Drilling Assn's Turney 1, sd 1905 ft. Pecos Valley Oil Co.'s Fuller 1, rig. Polk Prospecting Co.'s Looney 1, sd 1220 ft. W. S. Try's Johnson 1, trying to shut off water trouble 2685 ft. Greer et al's Burnett 1, sd 430 ft.

REAGAN COUNTY—Texon-Land & Oil Co.'s University 1, sd 2310 ft.

REEVES COUNTY—Bell Reeves Oil Co.'s Findley et al 1, sd 1540 ft. Dixieland Oil Co.'s Oates 1, sd 2840 ft. El Paso Saragosa Oil Co.'s George Wirt 1, sd 540 ft. Los Pecos Oil Synd.'s Oates 2, sd 730 ft. Parker-Hancock Synd.'s Johnson 1, sd 1930 ft. Pecos-Angelus Co.'s Pecos Valley 1, sd 1410 ft. Toyah-Bell Oil Co.'s W. D. Cowan 1, sd 625 ft; W. D. Casey 1, sd 210 ft. Pico Petroleum Co.'s Johnson 1, sd 1930 ft. Hawkeye Pecos Oil Synd.'s T. P. Land Co. 1, sd 825 ft. Sunshine Oil Corp.'s Van Horn Bank 1, sd 2555 ft. Texas Drilling & Dev. Co.'s Pecos Valley 1, sd 1105 ft. Chicago Drilling Co.'s H. G. Hersheusen 1, sd 15 ft.

RUNNELS COUNTY—Runnels Prod. Co.'s Russell 2, rigging up. Safety First Oil Co.'s Allen 1, trying to shut off water 3030 ft. Winters Oil & Gas Co.'s Lee Sauls 1, sd 3495 ft.

SCURRY COUNTY—Hermleigh Oil

A Real Bargain

For Sale—One 10-ton Holt oil country Caterpillar Tractor and Three Trailers. This equipment has not been in actual service more than 90 days and is in perfect working condition.

Our price on this will surprise you. Get in touch with us.

H. F. Wilcox Oil & Gas Co.
Tulsa, Oklahoma

FOR SALE

SAVE $2000.00
KREITER MACHINE CO.
205 San Jacinto Houston, Texas
GEAR CUTTING
Iron, Steel, Brass, 1" to 30"

SWAN UNDERREAMERS

AT YOUR SUPPLY STORE
Made By BRIDGEPORT WICHITA

ACREAGE AND PRODUCTION FOR SALE OR WANTED

Wanted—Block of leases on geologically approved structure for deep test well. Can drill immediately. Send us best proposition with geological report and maps. Might consider completing well now drilling on good structure. Ample funds available now. Address P. O. Box 957, Kansas City, Missouri.

HULL OIL FIELD
Liberty County, Texas
Acreage for lease in Southwest part of field, near production, to company amply able to drill.
OWNER, BOX 56
South Orange, New Jersey

BRAZORIA COUNTY OIL LEASES
10 acres northwest producing well at Stratton Ridge, close, $150.00. Commercial lease, $50.00 renewals. 5 to 25 acres southeast well $100.00 per acre fee. 1/64 royalty interest 212 acres 1 mile west northwest extension of Columbia field, $10.00 per acre.
F. S. PHILLIPS, Angleton, Texas

Oil Field and County Maps
Gulf Coast Country, Texas
Oil Field engineering and drafting to meet your individual requirements
JAMES GLEN
Oil Field Engineer
828 Cronicle Bldg. Phone Pres. 6260
HOUSTON, TEXAS

TEXAS OIL MAPS
County and District
Catalog on Application
HEYDRICK MAPPING COMPANY
Wichita Falls, Texas

MAPS
Oil fields in Texas, Louisiana, Kansas, Oklahoma and Mexico. Also U. S. Geological quadrangle maps of Texas, New Mexico, Louisiana and Colorado. Texas county maps covering all of the state.
ROCK MAP COMPANY
1112 Preston Ave. Houston, Texas

SWAN UNDERREAMERS

AT YOUR SUPPLY STORE
Made By BRIDGEPORT WICHITA

Co.'s J. W. Burris 1, sd 1400 ft. Stanton Oil Co.'s J. V. Riley 1, sd 3505 ft. Geo W. McLung's J. J. Billingsley 1, repairing machine td 1010 ft.

SCHLEICHER COUNTY — Paragon Oil Co.'s B. M. Boyd 1, sd for drill stem 600 ft.

STERLING COUNTY—Sterling Petroleum Co.'s Tom Brennand 1, dr 2990 ft. Co.-Operative Lease & Dev. Co.'s Douthitt 1, sd 1675 ft. Chicago Oil & Gas Co.'s B. C. Durham 1, sd 415 ft. Concho Drilling Assn's McIntyre 1, sd 505 ft.

TAYLOR COUNTY — Abilene-Texas Petroleum Co.'s J. C. High 1, sd 2025 ft. Andy Urban et al's Parker 1, sd for cas to shut off water, td 3445 ft. Sanger Oil & Ref. Co.'s Hale 1, sd 1860 ft.

TERRELL COUNTY—Pittsburg-Western Oil Co.'s Downey 2, sd 1260 ft. Southwest Oil & Gas Co.'s Folsom 1, fsh tools 3470 ft.

TOM GREEN COUNTY—Ranger Investment & Dev. Co.'s Harris 1, fsh cas 2855 ft.

WARD COUNTY—Arthur Pitts Oil Co.'s Soda Lake 1, sd 2205 ft; River 1, sd 4675 ft; Valley 1, sd 1685 ft. Cook & O'Brien's G. W. O'Brien et al 1, sd 1175 ft. Trans-Pecos Oil Co.'s Longnecker 1, sd 1755 ft.

North Texas Wildcats

COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Grayson County—		
Peters Oil Co. T. Butcher 1...	*	4025
Preston Anticline Oil Co. Munson 1	*	3650

DRILLING REPORT

(NOTE—The drilling report below does not show wells that are shut down indefinitely.)

CLAY COUNTY—Barker & Shelby's J. N. Craig 1, sd 715 ft. Dean & Morris' E. F. Davidson 1, rigged up. Gulf Prod. Co.'s C. M. Worsham 1, dr 1720 ft. Nebraska Oil & Gas Co.'s W. H. Myers 1, set casing 2650 ft. Lone Star Gas Co.'s Stine 15, set casing 1720 ft; Edrington 3-A, dr 2360 ft. Riddle et al's W. J. Hawthorne 1, dr 1100 ft. Scaling Oil Corp.'s Geo. Scaling 1, sd 980 ft. Stover & Shira's J. H. Spivey 1, sd 660 ft. Talbot et al's Burns 1, sd 800 ft. The Texas Co.'s Byers 45, rigging up cable tools 1670 ft; N. H. Martin 6, preparing to dr deeper, td 975 ft.

COOKE COUNTY—Big Indian Oil Co.'s B. W. Davis 1, dr 200 ft. J. W. Donehoo's B. Gunter 1, dr 925 ft. Powell et al's Whaley-Jones 1, sd 990 ft.

GRAYSON COUNTY — Revere Oil Co.'s Exstein 1, sd 2390 ft. Zee Tex Oil & Dev. Co.'s G. W. Cannon 1, sd 1950 ft; Griffin 1, dr 500 ft.

HARDEMAN COUNTY — Frizell et al's A. J. Norton 1, std to dd 2850 ft. Mid-West Pet. Co.'s Mulkey 1, sd 2520 ft. Nee-No-Shee Oil Co.'s Stewart 1, sd 2750 ft. Walker Oil Co.'s W. L. Lance 1, dr 2290 ft.

HASKELL COUNTY — Glenn Pet. Synd.'s Reynolds 1, dr 2100 ft. Commonwealth Oil Co.'s Ballard 1, sd 1000 ft. Wert & York's R. V. Colbert 1, sd 2200 ft.

JACK COUNTY—Barrett et al's Mrs. E. Leatherwood 1, co 3140 ft. J. F. Finch et al's Davis 1, rigged up. Fortuna Oil Co.'s Halsell 1, sd 515 ft. Mitchell Oil Co.'s Myers 1, sd 900 ft. Mercier & Casey's Hoefle 1, dk. Ralco Oil Co.'s Loving 1, dr by tools 3515 ft. Silver Star Drilling Corp.'s Coker 1, dr 950 ft.

KNOX COUNTY—Brazos Bend Oil Co.'s J. E. Clark 1, dr 1000 ft.

MONTAGUE COUNTY—Bowie Chief Oil Co.'s C. H. Boedeker 1, sd 1765 ft. Boyd Drilling Co.'s Dr. Potter 1, dr 1720 ft. S. L. Fowler et al's S. L. Fowler Ranch 1, dr 1810 ft. Petroleum Producers Co.'s J. W. Maddox 1, shut in gas well 845 ft. Raymond Oil & Dev. Co.'s Summerour 1, r 1800 ft. The Texas Co.'s J. E. Lemons 1, lubricated off gas and set casing 796 ft.

WILBARGER COUNTY—Aurora Oil & Gas Co.'s F. Ogleby 1, set casing 2430 ft. Number Nine Oil Co.'s W. T. Waggoner 1, dr 1015 ft; Waggoner 2, sd 525 ft; Waggoner 3, rigged up and sd; Waggoner 4, dk. Tex-Wyoming Oil Co.'s C. Zipperly 1, ur 1850 ft. Zacaquiesta Oil Co.'s A. B. Wharton 1, sd 2250 ft.

WISE COUNTY—Booneville Oil & Gas Co.'s J. O. Castleberry 1, dk. Flickenger et al's Whatley 1, sd 3860 ft. Herbert Oil & Gas Co.'s R. B. Banks 1, sd 300 ft. Keystone Pet. Co.'s Askew 1, sd 3250 ft. Michigan Oil & Gas Co.'s Young 1, r 1700 ft. Scott & Hunter's Askey 1, dk.

Texas Panhandle Wildcats

(NOTE—The drilling report below does not show wells that are shut down indefinitely.)

CARSON COUNTY—Gulf Production Co.'s J. I. Wynn 1, pulling 6⅝ casing 3680 ft; S. B. Burnett 3, dr 220 ft. The Texas Co.'s S. B. Burnett 1, sd 2995 ft. Tipton et al's McConnell 1, making 25,000,000 ft gas, ur 2460 ft.

COLLINGSWORTH COUNTY — Campbell et al's Stokely 1, dr 1260 ft. United Oil Co.'s Hennard 1, dr 3020 ft.

DONLEY COUNTY—Atlanta Oil & Dev. Co.'s Grogan 1, dr 3455 ft. Swanson Oil Co.'s Moreman 1, sd 2290 ft.

GRAY COUNTY—J. Harvey et al's Brown 1, sdtr 8-inch casing 3095 ft. W. W. Silk et al's G. W. Medley 1, dr 1310 ft.

HALL COUNTY—Craola Oil Co.'s Funston 1, sd 1080 ft. Home Peoples

Announcing New Sectionized Texas County Maps, Scale 1 inch-1 mile
White Prints Cloth $5.00, paper $3.00
Humble, Gulf, Texas, Mid-Kansas, Prairie, Pure, Sinclair and Cosden Companies use our maps.
Every County in Texas
Orders in mail one hour after receipt of wire
TEXAS PETROLEUM BUREAU
P. O. Drawer 586 Ft. Worth, Tex.

Oil Co.'s Barnett 1, fsh 2410 ft. Swanson Oil Co.'s Sexeours 1, sd 700 ft.

HUTCHINSON COUNTY — Coble Haywood Synd.'s Coble 1, sd 3740 ft. Gulf Prod. Co.'s Dial 1, dr 3655 ft. H. T. McGee et al's Smith-Cappers 1, sd 3166 ft. J. Whittington's R. Sanford 1, sd 140 ft.

MOTLEY COUNTY—Minneapolis Oil Corp.'s Echols 1, sd 4707 ft.

POTTER COUNTY — Amarillo Oil Co.'s L. Bivens 3, straightening hole 2450 ft; Masterson 3, rebuilding dk, 2750 ft.

Coastal Wildcats

ANDERSON COUNTY—Hudgens et al's Turner 1, dk. Old Colony's Graham 1, lcn. Palestine Oil & Dev. Co.'s Hugo Monnig Plantation 1, waiting on cas, had 14 ft of sand at 1685 ft, shows oil. J. F. Winans et al's Parker 2, dr 1700 ft. Roeser Pet. Co.'s Brooks & Auld 1, waiting on drill stem 3400 ft.

AUSTIN COUNTY—Harris Pet. Co.'s Schurenberg 1, dr 800 ft. Owens et al's Watson 1, lcn.

BASTROP COUNTY—Smithville Drilling Co.'s Adanchick 1, fsh 1000 ft. Triangle Oil Synd.'s Fritag Valenta 1, dr 2000 ft. J. W. Watson et al's Tom Watson 1, sd 430 ft. Elgin Oil Synd.'s Ramsey 2, dr 700 ft.

BELL COUNTY—Nolan-Bell Oil Co.'s Bacon 1, to sdtr 2155 ft. J. B. Hartman's Warrick 1, sd 2335 ft.

BRAZORIA COUNTY—E. P. Maloy et al's Emmett 1, dr below 2850 ft. Rancho Esabella Synd.'s Rudiger 3, sd 4800 ft. Mustang Oil Synd.'s Allison 2, fsh 3675 ft. Oliver Hall Oil Corp.'s Hall 1, sd 1990 ft. Atlantic Prod. Co.'s Strobel 1, dr around 3700 ft. Reed Dev. Co.'s Jamison 1, dr 3650 ft. Transcontinental's Breen 5, at Old Ocean, reported bailing 4000 ft. Wilkerson Oil Assn's 1, lcn. Croesus Oil Co.'s Wilkerson 1, rigged up. Texas Co.'s Mound 36, Hoskin's Mound, dr 2110 ft.

BRAZOS COUNTY—Warren Oil Co.'s Mooring 1, sd 4320 ft. Cobbs Bros' Williams 1, sd 2380 ft. Two Rivers Oil Co.'s Tabor 1, sd 1870 ft.

BURLESON COUNTY—Frank Balcer et al's Marek 1, sd 1440 ft. Caldwell Pet. Co.'s Speckman 2, dr 1950 ft. Federal Prod. Co.'s Giesenschlag 3, sd 900 ft. Swastaca Oil Co.'s Rogers 2, dr 1300 ft. Chriesman Oil Co.'s Phelps 1, sd 900 ft.

CALDWELL COUNTY—United North & South Oil Co.'s Cartwright 4, sd 2400 ft. Producers Oil Co.'s 1, dr 1725 ft.

CAMERON COUNTY—Rio Grande & Gulf Co.'s Champion 1, sd 4690 ft.

CALHOUN COUNTY — World Oil Co.'s Ruth 1, sdtr drill stem at 2250 ft, td 3198 ft.

CHAMBERS COUNTY—Thorning et al's LaCour 1, sd 2440 ft.

CHEROKEE COUNTY—Colliton Oil Co.'s Clapp 1, sd 2750 ft.

COLORADO COUNTY — Columbus Bernardo Oil Corp.'s Kaiser 1, dr 1395 ft.

ELLIS COUNTY — Beecher et al's Witherspoon 1, dr 3575 ft. Rolck-Banday's Hoosier 1, sd 1000 ft.

FALLS COUNTY—Mayflower Oil Co. Covington 1, sd 2400 ft. Highbank Oil Co.'s Peacock 1, sd 1625 ft. Penn-Texas Leasing Synd.'s Bargainer 1, sd 2140 ft. Texola & Hill Oil Co.'s Harlin 2, sd 2420 ft. Balto-Texas Oil Co.'s Price 1, dk. Denny-Mexia Oil Co.'s Knapp 1, sd to std 3700 ft. Pearce Pet. Co.'s Clark 1, dr 3075 ft.

FORT BEND COUNTY—Iona Oil Synd.'s Moore 1,a t Moore's Mound, coring at 3115 ft; Hellmuth 1, dk. Gulf Prod. Co.'s Davis 2, dr 3900 ft; Wheat 3, dr 1725 ft. Belvedere Synd.'s Belvedere 1, sd 3500 ft. Big Creek Oil Co.'s Moore & Hager 1, dr 2000 ft. Richmond Fort Bend County Oil Synd.'s Bryan 1, set 500 ft of 10-inch, dr 625 ft, had show of gas at 540 ft. Neilan Oil & Ref. Co.'s Gobbels 1, dr 2450 ft; Brown 1, r 1800 ft to set 8-inch, td 2630 ft. Gulf Dev. Assn's Voegell 1, sd for drill stem 2600 ft; Peckham 1, lcn. Lee et al's Ahlers 1, sd 1150 ft. Booth Oil & Dev. Co.'s Booth 1, rigged up.

GALVESTON COUNTY— Sun Co.'s Guidry 1, dr 700 ft. Texas City Oil Corp.'s Logan & Cook 1, sd 700 ft. The Pioneer Oil Co.'s Johnson 1, sd 100 ft. Patton Oil Co.'s Cade 5, sd 180 ft. High Island Mineral Co.'s 1, sd 225 ft. Galveston Oil Corp.'s Cash 1, lcn. Gordon et al's Fee B-1, dr 430 ft.

GONZALES COUNTY—Pioneer Oil & Gas Co.'s Patterson 1, sd for water 2050 ft. H. W. Brewer et al's Billings 1, sd 1200 ft.

GRIMES COUNTY — Navasota Oil Co.'s Vickers 1, sd 3200 ft. Terry Dev. Co.'s Upchurch 1, sd 685 ft.

HARRIS COUNTY — Texas Exploration Co.'s Warren 5, cemented cas 4330 ft; Warren 7, dr 725 ft in rock. Thomas Oil Corp's Bender 2, dr 2800 ft. Betty Lee Oil Co.'s Neese 1, sd 1870 ft. Tar-Tex Oil Co.'s Stewart 2, sd 1800 ft. The Humble Gulf Coast Oil Co.'s Dunks 2, sd 3200 ft. Willow Mound Oil Co.'s Gebhart 1, changing draw works 2200 ft. Garrett Oil Co.'s Townsite 2, setting 8-inch 3050 ft. Gulf Prod. Co.'s Warren 19, at Hockley, dr 900 ft. Ship Channel Oil Co.'s Atkinson 2, rigged up and sd. Giesecke et al's Giesecke 1, dr 2650 ft. Monarch Oil & Ref. Co.'s Hautier-Moyle, Greens Bayou, dr 1665 ft. Texas Southern Pet. Co.'s Riden 1, sd 3270 ft. J. C. Stribling et al's Seaureau 1, at Greens Bayou, dr below 2300 ft.

HARDIN COUNTY—Votah Oil Co.'s Swift 1, sd 2120 ft. C. G. Hooks et al's Dey 1, sd 1400 ft. E. F. Simms' Olive Sternenberg & Co. 1, located on the Joseph Landis survey 2, dr 300 ft.

HENDERSON COUNTY—Haynes et al's Woods 1, sd for pipe 2675 ft. Jones

VINSON, ELKINS & WOOD
ATTORNEYS
Gulf Building, Houston, Texas
Special Attention to Oil Leases and Litigation

PATENTS
Patents Obtained and Trade Marks and Copyrights Registered
OFFICE AT 709 KRESS BLDG.
HARDWAY & CATHEY
Phone Preston 4790 Houston, Tex.

Maurice Hirsch & Allen Hannay
ATTORNEYS AT LAW
601-2-3 Goggan Building
HOUSTON, TEXAS
Specializing in Oil Law and Land Law

PATENTS
Patents Obtained, Trade Marks, Patent Causes
JESSE R. STONE
Formerly Assistant Examiner United States Patent Office
Andrews, Streetman, Logue & Mobley, 12th Fl. Union N. Bk., Houston, Tex.

F. W. Freeborn Engineering Corporation
Engineers, Appraisers, Constructors, Managers
For
Oil and Industrial Properties
MAYO BUILDING
TULSA, OKLAHOMA
Dallas, Texas — Slaughter Building
New York City — 52 Wall Street
Boston, Mass. — 50 Congress Street

JAMES L. DARNELL
ARTHUR EATON
ENGINEERS
170 Broadway New York City

F. N. WILLIAMS
PETROLEUM ENGINEER
Design — Construction — Tests
Refining Troubles Corrected
607 Goggan Building
HOUSTON, TEXAS

The FT. WORTH LABORATORIES

Field Gas Testing. Analyses of oil field brines, gas minerals and oil.
Sell Thermometers, Hydrometers and Laboratory Glassware
F. B. Porter, B. S., Ch. E., Pres.
R. H. Fash, B. S., Vice Pres.
828½ Monroe St., Ft. Worth, Tex.

SWAN UNDERREAMERS

AT YOUR SUPPLY STORE
Made By BRIDGEPORT WICHITA

& Vaughn Oil Corp.'s Martin 1, sd 2980 ft. Pine Grove Oil Co.'s Brown 2, sd for repairs 315 ft. Tidal Oil Co.'s Moore 1, dr 3700 ft. Union Pet. Co.'s Smith & Logan 1, dr 3175 ft.

HIDALGO COUNTY—La Lomita Oil Synd.'s La Lomita Hill 3, twisted off 3185 ft. Dale L. Smith & Co.'s Fernandez 1, sd 2875 ft.

HOUSTON COUNTY—Porter Oil Co.'s Austin 2, sd 2395 ft. California Oil Co.'s States Eastman 1, dr 2100 ft. La-Tex Oil Co.'s Driskell 1, dr 2600 ft.

JACKSON COUNTY—Jackson County Oil Synd.'s Drushell 2, sd 2600 ft; Fuqua 1, sd 2200 ft. J. W. Young's Henley 1, sd 160 ft. Vanderbilt Pet. Co.'s Koop 3, coreing 3300 ft.

JEFFERSON COUNTY—Houston Oil Co.'s Pipkin 2, dr below 2520 ft in gumbo. Ball Ridge Pet. Co.'s Tyrell 1, sd 3140 ft. Seaport Pet. Co.'s Emly 1, sd 3200 ft. Wilson Oil Co.'s Broussard, rigged up and sd.

LAVACA COUNTY—Hillja et al's Hillja 2, sd 1245 ft. Lavaca County Oil Co.'s Laass 1, dr 2225 ft.

LEON COUNTY — D. & P. Synd.'s Heath 1, rigged up. Lang & Brown's Bolder 1, sd 2765 ft.

LIBERTY COUNTY—Whaley-Cove Oil Co.'s Neils 1, sd 1010 ft. Fairchild Pet. Co.'s Peeler 1, dr 3550 ft.

MADISON COUNTY — Stone King Stipe's Jones 1, sd 1800 ft. R. S. Ayers & Currie's Herring Estate, dr 2150 ft. Hewell et al's Martin 1, sd 1800 ft. Midway Oil Co.'s Sea 1, dr 1525 ft.

MATAGORDA COUNTY—Cooper Pet. Co.'s Culver 1, sd 3200 ft. Economy Oil Co.'s Taylor 1, sd 3850 ft. Texas Gulf Sulphur Co.'s Big Hill Townsite 1, sd 1450 ft; Big Hill Townsite 2, sd 2690 ft. Wilkinson et al's Wadsworth 1, r to bottom of hole 3000 ft.

McCLENNAN COUNTY—Foster Oil Co.'s Schnecker 1, sd 1660 ft. J. J. Kingsbury's Williams 1, sd 440 ft. Mexia Commonwealth Pet. Co.'s Holloway 1, sd 1160 ft. Tudor Oil Co.'s Shelton 1, sd 1950 ft.

MILAM COUNTY—S. A. Guiberson's Posey 1, pulling cas 2400 ft; Posey 2, sd 1545 ft. Tracey Maysfield Oil & Gas Co.'s Mays 1, sd 180 ft. Twin City Oil & Dev. Co.'s Bremond 1, dr 2720 ft. Norman Pet. Co.'s Watt 1, sd 1395 ft. Davis et al's Tracy 1, sd 795 ft. United Workers Oil Assn's Sneed 2, sd 600 ft. Mexia Air Line Synd.'s Reed 1, fsh for bit 1435 ft. The Lee Oil Co.'s Neuhaus 1, dr below 800 ft. Milano Uplift Oil Synd.'s Ashley 1, rigged up. R. E. Adams et al's Caywood 2, dr 900 ft. R. J. Barnes et al's Wm. Swan 1, lcn. Fogle & Marsh's Sandy Creek 1, dr 500 ft. O. T. Berry et al's Tom Robertson 1, dr 800 ft. A. L. Ballard et al's Laeffere 1, rigging up.

MONTGOMERY COUNTY — Tamina Prod. Co.'s McDermott 2, dr 1250 ft. Wilburton Oil Co.'s Smith 2, dr 750 ft. J. B. Hewitt's Folson 1, southwest corner G. W. Madeley lease, L. Y. Folson survey, lcn. Compers Oil Co.'s Medley 1, sd 300 ft.

POLK COUNTY—Godley Oil & Gas Co.'s Polk County 2, sd 3000 ft. Watner et al's Falkner 1, sd 2800 ft.

ROBERTSON COUNTY — Kentucky-Texas Oil Co.'s Walker Bros. 1, sd 3355 ft. Texas Central Pet. Co.'s Allen & McCrary 1, sd 3516 ft. Big Mexia Chief's Taylor 1, sd 1730 ft. Franklin Oil Co.'s Boyd 1, dr 4310 ft. Campbell-Logan-Hoover's Halloway 1, sd 3150 ft. Texas Union Oil Co.'s Moorehead 1, dk. Silver Bell Oil & Ref. Co.'s Brown 1, sd 3545 ft. Mud Creek Oil Co.'s Marquez 1, sd 3340 ft.

SABINE COUNTY—John Deering et al's Harris 1, sd 3500 ft.

WALKER COUNTY—Prison Commission's Prison 2, dr 3465 ft. South Texas Prod. Co.'s Jones 1, sd 2400 ft. Union Oil Synd.'s 1, lcn. Lancaster-Dick et al's Eastham State Farm 1, dr 3270 ft; Vivian 1, dr 1640 ft. Currie et al's Ferguson State Farm 1, r 3225 ft. Walker Maderson Oil Co.'s 1, resetting screen 2340 ft; 2, lcn. E. F. Simms Co.'s Thompson Bros.' 1, dr 3725 ft. Shackelford et al's 1, on Anderson survey, setting cas to test 400 ft, shows little oil and heavy gas.

WALLER COUNTY—Hulsey-Fletcher-Bailey Oil Co.'s Baines 1, sd 3275 ft.

WHARTON COUNTY—Hamilton Oil Co.'s Barkley 1, sd 3020 ft.

W. F. Bowman, geologist for the Rio Bravo Oil Company, is another one of those who claims the 13th as his lucky day. Last Friday (October 13) he became the proud father of a 13-pound baby.

WANTED

Refinery apparatus such as stills, condensers, pumps, tanks, etc. In fact any apparatus necessary for oil refineries. Give full particulars, price, etc. Spot cash.

Address

E. T. WELLMAN

1015 Wright-Callender Building Los Angeles, California

Marshall County, Okla., Test Has Oil Gas Show

Denison, Texas, Oct. 16.—The wildcat test of the Magnolia Petroleum Company just across the Red River from this city in Marshall County, Oklahoma is being watched with interest following the recent discovery of a number of good showings of both oil and gas. This test is located on the Bruce-May tract in Section 12-18S-5E, and is using gas for fuel from an old shallow gas producer nearby. The Bruce-May test drilled into an oil sand at 495 feet to 500 feet, and showed some gas at 535 feet. Another oil sand was picked up at 800 feet, but the amount of oil bailed from the hole did not warrant a test at this depth. Drilling is now going on below 1250 feet.

San Antonio District Wildcats

ARANSAS COUNTY — Texas Coast Oil Synd.'s Harris 2, reported in oil sand at 1432 ft.

ATASCOSA COUNTY—DeLange Eiser Oil Co.'s Tom 1, sidetracking; 2, sd.

BEXAR COUNTY—Gafney et al Sodrek 1, sd. Mason et al 1, dr below 400 ft. Ray Oil Co. Skrycki 1, bailing. San Antonio Prod. Oil Co.'s Posek 2, lcn. Transcontinental Oil Co.'s Streltzyk 1, changing rigs.

DUVAL COUNTY—Abercrombie et al Benavides 1, sd. Flornoy & Givens Canales 1, dr below 1900 ft. Federal Oil Co.'s Smith-Cockeral 1, dr. Gray Ridge Oil Co.'s 1 Gray, re-cemented at 3085 ft. Humble Oil & Ref. Co.'s Singer 3, dr 3085 ft. Mar-Tex Oil Co.'s Ridder 2 and 3, sd; 4, cemented 12-inch casing. National Oil Co.'s Scharlert 4, dr 3100 ft.

JIM HOGG COUNTY—Elm Oil & Gas Interests's Holbein 1, cemented at 1490 ft. E. O. W. Oil Co.'s Holbein 1, spudded in. Forest Miracle Oil Co.'s Holbein 1, sd. Givens Oil Co.'s 1, dr below 2000 ft. Holden et al's Hinojosa 1, dr 1100 ft. Ohio Fuel & Oil Co.'s 1, lcn. Miami-Balderas Oil Co's 1, dr. Weber Oil Co.'s Los Anamis 2, dr 2745 ft. Revere Oil Co.'s Davenport 1, dr Woods et al Holbein 1, dr 810 ft. Zapata Oil Co.'s Thompson 1, dr 850 ft.

KLEBERG COUNTY — Caprock Oil Assn.'s Nolkemper 1, setting 4-inch casing. Francis Oil Co.'s Flato 1, cementing 6-inch casing 2768 ft.

LIVE OAK COUNTY—Grubstake Investment Assn.'s Nichols 2, dr 1050 ft; 3 Reagan, lcn. Lebo Oil Co.'s Reagan 4, dr.

MAVERICK COUNTY—Eagle Pass Oil & Gas Co.'s 1, dr; 2, to test; 4, casing set.

..**McMULLEN COUNTY**—Circle Y Drl Co.'s Martin 1, sd. Grubstake Investment Assn.'s Stitz 1, dr out old pipe; 2, lcn. Callahan 2, sd; Jacob 2, setting canvas packer at 1376 ft to test. Hopkins-Earl Jacob 3, dr. San Balt Pet. Co.'s Martin 1, dr. Troy-Ballard Oil Co.'s Byrne

Gulf Refining Company

OKLAHOMA
TEXAS
LOUISIANA

Refiners of PETROLEUM

REFINED OIL
GASOLINE
NAPHTHA
GAS OILS
PARAFFINE WAX
ASPHALT
FUEL OIL
LUBRICATING OILS
CYLINDER
ENGINE
CORDAGE

Red and Pale Paraffine Oils

General Sales Offices: PITTSBURGH, PA.

District Sales Offices:
NEW YORK, HOUSTON, ATLANTA, BOSTON, NEW ORLEANS
PHILADELPHIA

Ocean Terminals

Beverly, Mass.
Gibson's Point, Pa.
Port Tampa, Fla.
Port Arthur, Texas

Bayonne, N. J.
Savannah, Ga.
Gretna, La.
Magazine Point (Mobile), Ala.

Providence, R. I.
Jacksonville, Fla.
Galveston, Texas

dr below 300 ft. Pioneer Consolidated Pet. Co.'s Lowe 2, casing set.

SAN PATRICIO COUNTY—Aransas Pass Live Oak Ridge Oil Co.'s Sigmund 3, to dr in. Rockport Oil & Gas Co.'s 2, dr 250 ft. San Patricio County Oil Dev. Co.'s Hattie 2, sd. White Point Prod. Co.'s Rachal 1, set 8-inch casing; 2, dk. White Point Dev. Co.'s Rachal 1, lcn.

VAL VERDE COUNTY—R. Cook et al 1, waiting on rig. Del Rio Oil & Gas Co.'s Eagle Pass Hill 1, dr. William Devine et al Whitehead 1, lcn. Fensland Oil Co.'s Abb Rose 4, dr. Heaton & Ady Sellers 1, lcn. Huber Oil Co.'s Harrison 1, dr 1050 ft. Havalien Oil Co.'s Weathersbee 1, reported gas showing; 2, lcn. Humble Oil & Ref. Co. McDonald 1, lcn. Miller et al 1, dr 250 ft. Pure Oil Co.'s Stevenson-Murah 1, lcn. Reclamation Oil Prod. Synd.'s Moore-Whitehead 1, to resume dr.

Kansas Wildcats

FINNEY COUNTY—Garden City Oil & Gas Co.'s Wann 1, SEc SE 35-21-3w, fsh 2600 ft.

HARPER COUNTY—Alcorn Oil Co.'s No. 1, NEc SW 24-34-6w, dr 1800 ft.

KINGMAN COUNTY—Haynes et al's Ryal 1, SEc SW 16-27-7w, fsh 2650 ft.

McPHERSON COUNTY — Wintinworth et al's Clark 1, NWc 2-18-1w, ur, td 2725 ft. Wizzard Oil Company's Waln 1, SWc NE SW SW 34-18-12, fsh 1370 ft.

OSAGE COUNTY—Mullvit Dev. Co.'s Neil 1, NEc NW SW NE 6-17-17, show of oil 1800 ft.

POTTAWATOMIE COUNTY — Crawford et al's St. Marys 1, SWc SE 11-10-12e, dr 2200 ft.

RILEY COUNTY—Pawnee Oil & Gas Co.'s Marks 1, SWc NW NW 26-10-6e, dr 1120 ft.

TREGO COUNTY—Heyes Pet. Co.'s Walsh 2, SWc NE SW 5-11-25w, dr 525 ft.

WASHINGTON COUNTY — Mitchell Oil & Gas Co.'s Canfield 1, SWc NW 16-2-1e, dr 1570 ft.

Oklahoma Wildcats

ATOKA COUNTY—J. F. Torrance fee 1, SWc NE NE 1-2s-9e, rig. Wapanucka Dev. Co.'s Underwood 1 C W L E½ SE SE 28-2s-9e, rig.

BECKHAM COUNTY—Southerland et al's Graves 1, SWc NE NW 8-8-26w, dr 1870 ft.

BLAINE COUNTY—Thompson et al's Dickerman 1, SEc 26-1-12w, spudded.

BRYAN COUNTY—Texokla Oil Co.'s Beal 1, NWc SE 21-6s-8e, dr 960 ft.

CLEVELAND COUNTY — Garr Oil Gas Co.'s Dawson 1, NEc 34-13-9w, dr 1790 ft.

CLEVELAND COUNTY — Garr Oil Co.'s Holland 1, NEc SE 31-10-4w, dr 875 ft. Rosedale Drilling Co.'s Thompson 1, C S L N½ 3-10-1e, old well, dr resumed 2830 ft.

CUSTER COUNTY—Parker Oil & Gas Co.'s Ruth 1, C SE NW 1-15-15w, dr 3225 ft. Ralph Day Miller 1, SWc SE SE SE 21-14-17w, fsh 1850 ft.

GRANT COUNTY—Lynch & Clement's Danford 1, C SE SE NE 35-26-3w, fsh 1260 ft.

HUGHES COUNTY—Arkansas Nat. Gas Co.'s Colbert 1, SWc SE 25-9-12, rigging up. Furham Pet. Co.'s Buck 1, NWc SW SW dr 300 ft. Gilcrist et al's Burner 1, NWc NE 20-9-9, dr 670 ft. Malcona Pet. Co.'s Dinzy 1, NEc NW NW 23-9-10, fsh 2540 ft. Ossenback et al's Davis 1, C SE NE 10-8-7, dr 650 ft. R. H. Smith's Carolina 1, SWc SE NW 23-7-7, dr 2310 ft. Frank Tack Stewart 1, SEc SW 1-9-10, dr 2750 ft.

KIOWA COUNTY—Kiowa Dev. Co.'s School land 1, NWc SW 33-6-20w, dr 650 ft. Long Beach Oil Synd.'s Allen 1, NWc SE 21-7-17w, fsh 710 ft.

LINCOLN COUNTY—Fitzpatrick-Berry Synd.'s school land 1, SWc NE 16-17-4, timbers. Magnolia Pet. Co.'s Payne 2, SWc NW SE NE 6-17-4, digging cellar. Mutual Oil Co.'s Powell 1, SEc NW NW

How Old Is An Old Engine?

This is a hard question for Ajax owners to answer.

We know of one which has given 22 years of exceptional service and is still going strong. There are hundreds of genuine Ajax Drilling Engines with like records, some having been in use over 27 years.

AJAX ENGINES

The use of genuine Ajax replacement parts with the genuine Ajax Drilling Engine insures long life and perfect performance. Both are distributed by all branches of the

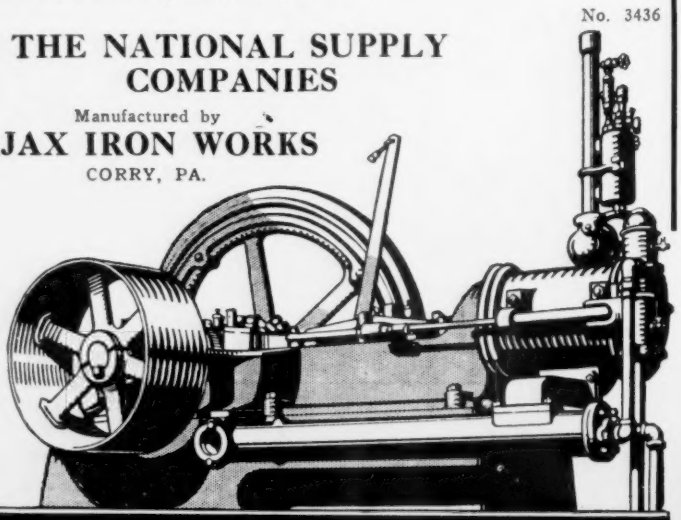
THE NATIONAL SUPPLY COMPANIES

Manufactured by

AJAX IRON WORKS

CORRY, PA.

No. 3436



AJAX

DRILLING ENGINES

SWAN UNDERREAMERS

AT YOUR SUPPLY STORE

Made By BRIDGEPORT WICHITA

17-15-3, ur 1750 ft. Plateau Oil Co.'s Keller 1, SEc 28-17-2, sd casing trouble 1660 ft. Union Pet. & Supply Co.'s Jackson 1, SEc 2-14-6e, dr 1200 ft. Windsor Empire's Blake 1, C NE NE 9-17-4, slush pond dug.

LOVE COUNTY—Strum-Crosby's Petman 1, SEc NW SW 20-6s-1e, dr 2615 ft. Reid Davenport's Gray 1, NEc 8-7s-1w, dr 810 ft.

MARSHALL COUNTY—Magnolia Pet. Co.'s Brown 1, C NE NE NE 12-8s-5e, show of gas 475 to 500 ft, shut down awaiting orders. Winters et al's Simmons 1, NEc 16-6s-6e, dr 360 ft.

McCLAIN COUNTY—Mariam et al's Wantland 1, C NE 1-5-2w, dr 2360 ft.

McCURTAIN COUNTY—Fred Ptak's Wilson 1, NWc SE 15-8s-25e, fsh 2200 ft.

MURRAY COUNTY—Corn Huskers Oil Co.'s Wolfe 1, NWc SW 6-1-2, dr 2200 ft.

OKLAHOMA COUNTY—Big Three Oil Co.'s unallotted 1, SWc NE 31-12-2w, dr 1150 ft. Charles H. Shaw's Lovell 1, SWc SE 29-13-1e, dr 1050 ft.

PONTOTOC COUNTY—American Oil & Ref. Co.'s McClure 1, NWc SW SW 16-4-6, dr 450 ft; Merryman 1 SEc NE 17-4-6, show of gas 1270 ft, dr 1300 ft.

SEMINOLE COUNTY—Art King's unallotted 1, NEc SE NW 4-5-5, dr 900 ft. R. H. Smith Foster 1, NWc SW NW 33-8-8, fsh 2000 ft. Templeman et al's Roberts 1, SEc SW SW 32-9-8, dr 200 ft.

WASHITA COUNTY—Empire Gas & Fuel Co.'s Hamilton 1, SWc SE 25-12-14w, dr 2990 ft. Enid-Garber Oil Co.'s Wilkinson 1, SEc NE 30-8-16w, dr 2050 ft. Rita Oil Co.'s Joyce 1,NEc SW SW 21-11-19w, dr 2310 ft.

Louisiana Wildcats

COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Claiborne Parish—		
Gulf Ref. Co.'s Meadows 1, 20-21-7	‡	2339
Webster Parish—		
Empire Drlg. Co.'s Spencer 1, 5-21-9	*	3240

DRILLING REPORT

BIENVILLE PARISH—Davis Synd.'s Theus 1, 5-17-5, sd 2785 ft. Langston et al's Davis 1, 23-17-5, sd 1485 ft. Smitherman et al's Pentecost 1, 29-18-5, dr 2600 ft; White 2, 29-18-5, dk timbers. Wadley et al's Lawhon 1, 8-16-8, dk.

CADDO PARISH — Louisiana-Texas Community Oil Co.'s Hill 1, 33-23-16, wosr 2957 ft.

BOSSIER PARISH—Andores Oil Co.'s Bolinger 1, 23-23-13, dr 50 ft. Atlantic Prod. Co.'s Johnson 1, 21-22-13, fswh 3660 ft. Clark et al's Connell 1, 35-18-12, lcn. Collins et al's Gray 1, 28-19-13, testing cas 2545 ft. Corbett et al's Atkinson 1, 4-18-12, set 6-inch 1160 ft. Elliott et al's McLaughlin 1, 10-8-11, sd 500 ft. Hoenke et al's Freeman 1, 15-18-12, dr 3200 ft. Invincible Oil Co.'s DeMoss 1, 20-22-12, testing 2700 ft. Morefield & Tanner's Bolinger 1, 9-22-11, dr 100 ft. Olmstead et al's Scanlan 1, 10-20-13, dr 50 ft. Perkins et al's Gayle 1, 33-20-13, rig. Skannal et al's Fee 1, 22-17-12, set 8-inch 839 ft. Standard Oil Co.'s Rawls 1, 15-22-11, set 8-inch 1158 ft.

CLAIBORNE PARISH—Adams et al's O'Bannon 1, 25-22-5, coring 2100 ft. El Dorado-Chief Oil & Gas Co.'s Kinder 1, 35-22-7, dr 1600 ft. Esto Oil Co.'s Tuggles 1, 31-21-6, sd 2135 ft. Fullenwilder et al's Fullenwilder 1, 8-23-6, set 10-inch 850 ft. Harrell et al's Brinkley 1, 15-23-4, sd 1650 ft. Haynesville Star Oil Co.'s Crump 1, 9-23-7, sd 3030 ft. Meyer et al's Boatner 1, 20-19-5, dr 1850 ft. Mitchell et al's Cooper 1, 19-23-4, sd 600 ft. Steel et al's Wise 1, 15-23-6, sd 3160 ft. Steuben O. & G. Co.'s Taylor 1, 16-22-6, dk. W. H. C. Oil Co.'s Dillon 1, 11-19-7, dr 650 ft.

EVANGELINE PARISH—Pine Prairie O. & G. Co.'s LeDanois 2, 34-3-1, sd 1230 ft.

DE SOTO PARISH—Fortuna Oil Co.'s Giauque 9, 32-12-11, testing 2717 ft. Lee et al's Joyner 1, 28-11-12, dr 3020 ft. Pilgrim Oil Co.'s Ramsey 3, 34-13-16, dr 4235 ft. Simms Oil Co.'s Pelican 1, 8-

KAW

Refinery Equipment

KAW equipment is in extensive use throughout the Mid-Continent field.

The exacting demands of the oil industry are dependably met in KAW-built refinery equipment. Expert, painstaking construction assures long years of faithful, accurate service.

Get KAW specifications on all your steel refinery equipment.

Storage Tanks
Condenser Boxes
Horizontal Tanks
Rundown Tanks
Stills
Towers
Stacks
Agitators

KAW BOILER WORKS COMPANY

Office: Waldheim Bldg.
KANSAS CITY, MO.

Plant: 1st and Walker Avenue
KANSAS CITY, KANS.

11-11, dr 4010 ft. Snell et al's Connell 1, 8-12-15, fsh 2991 ft.

LINCOLN PARISH—Greer & Gault's Simmons 1, 25-18-1, dk. Roxana Pet. Co.'s Thomas 2, 24-18-4, set 10-inch 2200 ft.

NATCHITOCHES PARISH—Parks et al's Morse 1, 23-5-6, dk; Crowell-Spencer 1, 29-5-6, dk.

RAPIDES PARISH—Bell et al's Barnett 1, 15-5-1w, sd 1348 ft.

SABINE PARISH—Brown et al's Bowman-Hicks 1, 7-7-12, r 2200 ft; Bowman-Hicks 2, 15-7-12, sd 410 ft. Gladys-Belle Oil Co.'s Belmont-Raines 1, 33-9-11, dr 2615 ft. Middlesex Oil Co.'s Smith 1, 17-7-10, dr 355 ft. Pathfinder Oil Synd.'s Long-Bell 1, 8-8-13, set 8-inch 1600 ft. Zwolle Oil Co.'s Bowman-Hicks 2, 15-7-12, set 8-inch 380 ft.

UNION PARISH—Gardner et al's Brown 1, 6-23-3W, dr 2565 ft. Price et al's Rogers 1, 23-23-2, fsh 2180 ft. Texas Co.'s Grayland 2, 20-23-2, fsh 2860 ft; Taylor 1, 3-22-2, dr 2660 ft. Transcontinental Oil Co.'s Carroll 1, 12-22-2, set 6-inch 3321 ft.

WEBSTER PARISH — Dan Boone Synd.'s Wheeler 1, 35-23-11, rig. Burkhalter et al's Burkhalter 1, 29-19-8, dry 2250 ft. Kenney Bros.'s Hudson 2, 17-19-10, lcn. Le Guerre Synd.'s Miller 1, 33-19-10, abn 1155 ft. Lucky Four Oil Co.'s Baldwin 1, 28-18-10, sd 1600 ft. Midway Oil Co.'s Heflin 1, 24-17-9, lcn. Palmer et al's Pinewoods 1, 35-23-10, testing cas 2565 ft. Raymond et al's Houston 1, 33-23-10, dr 2025 ft. Shirley-Tooker Synd.'s Andres 1, 6-18-10, dr 545 ft. Triangle Drlg. Co.'s Allen 1, 30-22-10, set 8-inch 1675 ft. J. K. Wadley's Pearce 1, 14-17-9, dr 2635 ft. Webb et al's Merritt 1, 13-21-10, sd 2558 ft.

CHAPMAN Valves

Cast Steel Drilling Gates

TESTED TO 2500 POUNDS. Every valve tested to 2500 pounds per square inch (a 24-hour test) before leaving the factory.

MORE THAN DOUBLE THE STRENGTH OF CAST IRON. Chapman cast steel has a tensile strength of 65,000 pounds per square inch (elastic limit not less than half the tensile strength). This permits the use of lighter construction—thus the Chapman steel drilling gate is

LESS THAN HALF THE WEIGHT OF CAST IRON VALVES. Easy to handle in the field, lower transportation charges, etc.

Large stocks of these valves in Beaumont

Write for full information on the last word in drilling valves. Also Catalog No. 40, describing our complete line of valves for all phases of the oil industry.

The Chapman Valve Manufacturing Co.

INDIAN ORCHARD, MASS.

Houston Office: Beatty Building. Phone: Preston 6939

Arkansas Wildcats

COMPLETION

Company, Well, Location	Initial Production bbls.	Depth
Columbia County—		
American Oil & Gas Co. Hicks 1, 21-16-22	*	2137

DRILLING REPORT

BRADLEY COUNTY—Southern O. & L. Co.'s Blankenship 1, 20-12-9, sd 1890 ft; Bradley 1, 25-13-10, dr 3050 ft.

CALHOUN COUNTY—Calhoun O. & D. Co.'s Hernsberger 1, 16-11-13, sd 2530 ft. Hermann Oil Co.'s Freeman-Smith 3, 31-14-15, dr 1950 ft.

CHICOT COUNTY—Duncalf Oil Co.'s Fee 1, 12-18-2, sd for cas 1165 ft. Hoffman Oil Co.'s Loyle 1, 28-17-2, set 10-in 1200 ft.

CLARK COUNTY—Arkansas Synd.'s Barringer 1, 26-10-20, sd 2845 ft. Casey et al's Sloan 1, 18-8-19, sd 845 ft. United Pet. Co.'s Langford 1, 28-5-23, sd 1590 ft.

COLUMBIA COUNTY—Bowdy et al's Fullenwilder 1, 12-17-22, rig. Brown et al's Robinson 1, 23-18-23, sd 903 ft. Cox et al's Davis 1, 14-18-21, sw 2105 ft. Dexter et al's Davis 1, 12-18-21, sd 2675 ft. Hercules Oil Co.'s Wise 1, 29-18-21, sd 2565 ft. Haskell et al's Brown 1, 10-17-20, sd 3000 ft. Hosey & McDonald's Haire 1, 30-10-18, sd 500 ft. Russell et al's Flint 1, 3-20-20, dk; Rushton 1, 7-19-19, sd 2400 ft. Sharp & Strough's Brown 1, 28-18-20, set 8-in 1080 ft. T. S. D. Co.'s Magale 1, 11-17-21, sd 2020 ft.

CRITTENDEN COUNTY—Crittenden County O. & G. Co.'s Stanley 1, 33-8-7, sd 1631 ft.

DREW COUNTY—Grant County Oil Co.'s Stupka 1, 15-5-12, sd 1210 ft. Jeter & McGee's Cargile 1, 25-6-12, sd 700 ft. Par Oil Co.'s Breech 1, 31-4-11, dk. Winters et al's Lamb 2, 25-6-15, sw 1875 ft.

HEMPSTEAD COUNTY—Georgia Oil Co.'s Duckett 1, 28-10-24, sd 865 ft. Hawthorne et al's Allen 1, 33-11-25, sd 275 ft. Sechrist et al's Duckett 1, 23-33-33, fsh 2245 ft. Tycap Oil Co.'s Mason 1, 7-11-24, set 5 3/16-in 2345 ft.

LA FAYETTE COUNTY—LaFayette O. & G. Co.'s Creek 1, 10-15-20, dk. Ken-Saw Pet. Co.'s Fee 1, 31-19-24, dr 2865 ft.

LITTLE RIVER COUNTY—Sullivan Oil Co.'s Ludlow 2, 32-11-32, dr 1500 ft.

MILLER COUNTY—Dodwell et al's Miller 1, 29-18-27, sd 900 ft. Farmers O. & G. Co.'s Ramsey 1, 24-17-23, dk. Magnolia Pet. Co.'s Westmoreland 1, 9-19-17, set 8-in 2380 ft. Miller Land Co.'s Miller 1, 18-18-72, dk. Primero Oil Co.'s Bedgood 1, 2-16-18, sd 2200 ft.

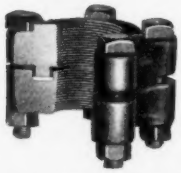
NEVADA COUNTY—Gleason et al's Williams 1, 12-14-20, sd 1005 ft. Goetz et al's Munn 1, 4-14-22, sd 400 ft. Gulf Ref. Co.'s Graves 1, 34-14-20, dr 1250 ft. Kan-Ark Oil Co.'s Brimberry 1, 21-13-21, dr 2280 ft. Murphy & Falke's Williams 1, 12-14-20, dr 1025 ft. Nelson et al's Lester & Haltom 1, 4-15-20, dry 2426 ft. Tri-County Oil Co.'s Drake 1, 3-15-20, sd 2325 ft. Watkins et al's Womack 1, 11-14-21, sd 1192 ft. White et al's Phillips 1, 3-14-20, sd 180 ft.

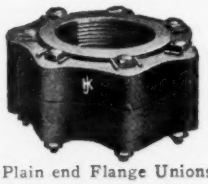
OUACHITA COUNTY—Lumbermen's Pet. Co.'s Crichter 1, 27-15-18, sd 2300 ft. Southern Oil Co.'s Patterson 1, 22-12-9, fsh 2895 ft. Springer Oil Synd.'s Hecker 2, 2-14-17, dr 550 ft. Universal Pet. Co.'s Benton 1, 24-12-19, fsh 3530 ft. Walker et al's Hickman 1, 15-14-17, sd 1915 ft. White et al's O'Donnell 1, 31-13-16, lcn.

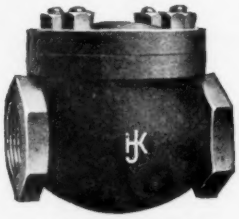
KELLY & JONES

OIL FIELD SUPPLIES

Casing Heads


Flange Unions


Plain end Flange Unions


Swing Check Valves

WE manufacture a complete line of cast iron, malleable, brass and steel fittings; brass, iron and steel valves; brass and iron cocks; expansion joints, casing heads, and other specialties for oil field service.

Only the best of raw materials is used in their manufacture, skilled workmen direct every operation—rigid inspection and tests insure a safe, dependable product wherever applied.

It will pay you to standardize on the complete KELLY and JONES line.

Send for our new Catalogue "S"

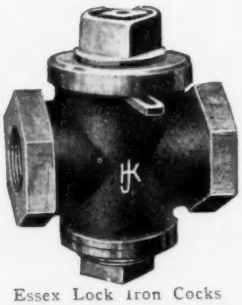
The Kelly & Jones Co.

GREENSBURG, PENNA.

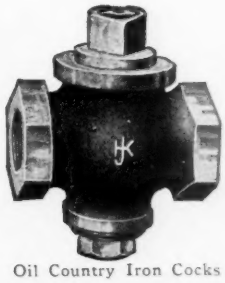
New York
St. Louis

Pittsburgh
Cincinnati

Chicago
San Francisco


Essex Lock Iron Cocks

Crosses


Oil Country Iron Cocks

One of Richest Oil Fields on an Island

Tarakan is off northeast coast of Dutch Borneo—only forty square miles in area

Of all the Dutch colonial possessions in the East, probably there is none richer in natural wealth, square mile for square mile, than the small island of Tarakan off the northeast coast of Dutch Borneo, writes Mr. H. G. Lowe, of H. M. Dockyard, Hong Kong, in The Blue Peter. Tarakan is situated in latitude two degrees north of the equator, is about 40 square miles in area, and is only a mile distant in parts from the mainland of Borneo. It owes its present-day importance to the fact that it contains one of the richest oil fields in the world, and the exploitation of this valuable mineral resource is being energetically pushed forward by the Bataafsche Petroleum Maatschappij, one of the companies forming the Shell group.

The presence of oil in the island was discovered 14 years ago by an Englishman, and the production now amounts to about 2500 tons per day and is expected to reach 4000 tons in the near future. The productivity of the oil field, the ease with which the oil can be obtained, the fact that it is ready for use without any refining processes and is among the finest Diesel fuel extant, and the close proximity to the wells of a port at which the oil can be loaded into vessels drawing as much as 31 feet, render Tarakan almost unique as an oil-producing district.

Loading Port of Linkas

Apart from the town of Tarakan, which is situated on the oil field itself, there is only one village on the island. This is Linkas, the loading port, which is barely three miles from the source of the oil. The most conspicuous feature of Linkas is the range of white-painted oil tanks dotted about the hillside like so many mushrooms, which meets one's gaze as one approaches the port from seaward. These tanks hold 50,000 tons. Others are in course of erection, and ultimately the tankage at Linkas will amount to 120,000 tons. Besides the oil tanks, Linkas possesses one street with half a dozen shops or so—each in the nature of a general store—mostly in the hands of Chinese; a few Malay huts built on bamboo poles in the mud on the foreshore; and quarters for the coolies employed on the tanks. There are bungalows for three Europeans—one being occupied by the harbor master and his wife, and the others by married officials of the oil company. Were it not for the close proximity of Tarakan social life at Linkas would be dull indeed.

There is no mistaking the road from Linkas to Tarakan, first because the pipe lines carrying the oil line the roadside; and secondly because there is no other road on the island. The road is bordered by dense jungle and swamps. In this jungle wild pigs are plentiful, monkeys stare from the luxuriant tropical vegetation at the passer-by. Orchids of every hue and color abound, many having rooted themselves high in the decayed branches of the trees. The trees of Tarakan are magnificent in their stateliness and variety, with brilliantly green foliage and tall, straight boles often running to a hundred feet in height before a branch appears. The timber of the island must be no mean asset, but as yet it has not been regarded as a commercial proposition, and the only felling that is done is to meet the requirements of the oil industry. If the oil gave out no doubt attention would be diverted to the timber on the island, but so long as such an easy method of acquiring wealth exists as boring a hole in the soil and letting pounds, shillings and pence exude, scant attention will be paid to more complicated and indirect methods of making money. If such a time should come, not only the timber but also the coal on the island will no doubt have its due meed of consideration. Probably in no other part of the world could coal be obtained without the sinking of shafts and erection of machinery; but here it is in Tarakan occurring as an outcrop on the side of a hill and only needing to be shovelled away; and yet it is treated with disdain and left practically untouched. Except in a few European cooking ranges there is no use for coal in Tarakan. Oil reigns supreme—all the power required on the oil field for pumping and other purposes is obtained from oil-fired furnaces. Coal is dirt in Tarakan!

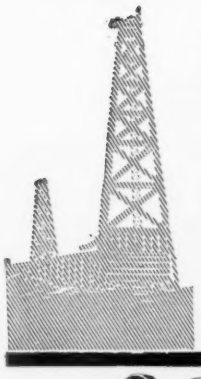
The Oil Fields

The oil field itself occupies the twentieth of the island and is 1300 acres in extent. In traversing this region the ardent tobacco smoker will experience some disappointment, for at every turn notices are displayed in six languages sternly forbidding smoking. On the edge of the oil field the town of Tarakan has tastefully laid out and has artistic bungalows and one-storied houses for the married officials of the company, a separate section of the town being set apart for the bungalows of bachelors. There are 110 Euorpean men, nearly all of whom are Dutch. However, they all speak English fluently, so the only Englishman employed finds no difficulty in communicating with his colleagues. Fifty Dutch women and children make up the quota of European life. Recreation is found in the evenings at a social club, where billiards and tennis can be played. There is also a football ground, but some difficulty is found in arranging matches on account of the geographical position of Tarakan. Life is strenuous for the male population of the island, work starting at 6:30 a. m. and finishing at 5:30 p. m., with an interval of an hour and a half for the mid-day meal. These hours seem long for a place so near the equator, but the health of the community is good and the climate, notwithstanding the tempera-

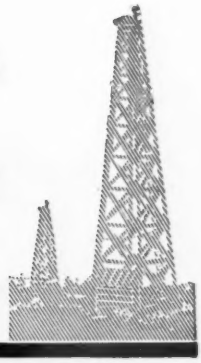
SWAN
UNDERREAMERS

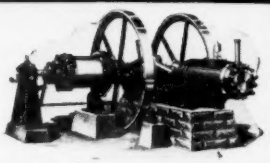
AT YOUR
SUPPLY STORE
Made By
BRIDGEPORT
WICHITA

USE
The Genuine
WILLIAMS' "VULCAN"
CHAIN PIPE WRENCH
with
Bolt Construction
and
Proof Tested Chain
Ask your dealer. Literature?
J. H. WILLIAMS & COMPANY
"The Wrench People"
BROOKLYN 211 Richards St.
BUFFALO 211 Vulcan St.
CHICAGO 1211 W. 120th St.



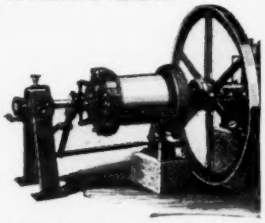
High Repeat Orders *mean* Lower Sales Expense *and that means* More Value Per Dollar





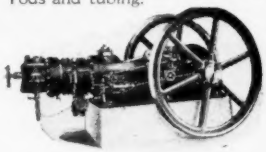
The Bessemer Oil Field Engine

Famous in deep oil territory the world over. Deep territory proves the worth of an engine and clutch. The original two-cycle engine, built with cross-head, has no valves exposed to exploding gases and has a score of exclusive features.



The Bessemer S. G. Clutch
(Reversible)

The latest big-scale improvement in Bessemer equipment. It will show you new standards in speed and ease in (1) drilling (2) cleaning out and (3) pulling rods and tubing.



The Bessemer Type O. D. Engine

Operates on either oil or gas with only a slight change of equipment. A proper engine for any oil field need—especially where a failure of natural gas threatens.

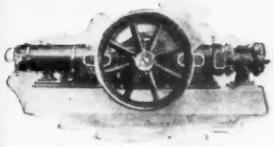
If Bessemer users didn't continue to order Bessemers almost automatically after their first trial, Bessemer sales-expense would climb rapidly.

When, virtually, every first sale means steady additional business year after year, it means that Bessemer can put into its products the money saved in selling.

Buy Bessemers and you pay for solid value in material and painstaking workmanship. Buy Bessemers and you pay the least for sales-expense. Buy Bessemers once and you will continue to buy Bessemers indefinitely.

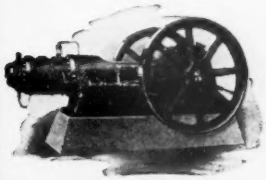
The Bessemer Gas Engine Co.
62 York Street Grove City, Pa.

Service Branches in the Principal Production Centers



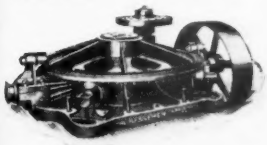
Bessemer Type VIII
(With Bessemer Compressor Cylinder)

Combining engine and compressor in one unit saves floor space, belting expense, foundation and installation costs, and insures reliable and efficient service. Standard equipment in the Gasoline-from-Gas Industry.



Bessemer Type IV Oil Engine
(15 to 180 H. P.)

Firmly established in its popularity, this engine with enclosed crank case, cross-head construction, patented combustion chamber and other features is without an equal for economical trouble-free performance.



Bessemer Roller Pumping Power

—will give you better service, will wear longer, will require less attention, and are less liable to break because of nine important features.

BESSEMER

BESSEMER OIL FIELD ENGINES – COMPRESSORS VACUUM PUMPS – ROLLER PUMPING POWERS

ture seems to suit the white man. Malaria and other tropical diseases are conspicuous by their absence. Cool nights can always be relied upon, and the mosquito seems to be kept effectually at bay by the omnipresent oil.

The manual labor on the oil field is performed by coolies, and there are some 4000 employed. These are imported from Java, China, the Straits and India, in roughly equal proportions. It is found that this mixture renders the company immune from strike and other industrial troubles, one nationality neutralising the other. The wages of a coolie are one guilder a day (1s. 8d) and all are under contract for three years' work, after which they are repatriated. The remaining population of Tarakan is made up of the wives and children of the coolies and the Chinese and Indian shopkeepers, who make their living out of the daily needs of the oil workers. Quarters are provided by the company for all their employees, European and Asiatic alike.

On an average oil is struck after boring for 300 metres, and it is an exciting moment when the oil begins to gush, for a premature spouting means the loss of many tons of oil with attendant danger to life and property in the neighborhood. Before commencing to bore, a timber structure about 70 feet in height is erected, from the center of which the drill is operated. A start is made with a steel drill with a 20-inch chisel head, which is attached to a slender length of tubing, and as the earth, sand and stone are penetrated, sludge is pumped down the tubular extension of the drill. Sludge is used instead of water for a double purpose, firstly, because water was found to be incapable of moving the heavier particles of stone drilled upward, and, secondly, because sludge acts as a more powerful plug than water to the hole being bored. As the depth increases extra lengths of tubing are attached, and the size of the drill used is gradually reduced until on reaching the oil the size of the hole made is but four inches. When it is expected that the oil is being approached, very careful examination is made of the drillings, which are passed through a strainer on coming to the surface. Minute specks of oil amongst the mud and sand then reveal the proximity of the precious fluid, and preparations are made for the gush.

Channels are dug into the sandy earth to convey the oil from the boring to reservoirs which have been prepared to receive it. The above-ground portion of the drill is covered with an iron about 12 inches in diameter, with a baffle plate at the top. When the gush does come, oil and sand are projected up this funnel-like casing with immence force and, striking the baffle plate, fall to the ground. For the first few hours the sand ejected has to be continually cleared away to keep the channels free, but the pure oil soon commences to run and finds its way into the first reservoir and thence to other oil pools on slightly lower levels, during which process any sand mixed with the oil settles on the bottom. It was rather surprising to find that these reservoirs or pools were merely pits dug in the sand without any lining of concrete, but experience has shown that this is all that is necessary, and that very little oil percolates through the earth below as it is already impregnated. The oil, freed of its admixture of sand, is then conveyed to tanks, where the water is separated from it by an electrical process, and it is then passed into the pipe line, pumped to Linkas tanks, and conducted thence along a pier 400 yards long for shipment. Within a week of the oil coming out of the earth it may be in the bunkers or cargo tanks of a ship.

Tarakan Gushers

Some gushers last for eight or nine months, and start with an output of 1000 tons a day. At Tarakan practically every boring that strikes oil results in a gush, and when the natural force of the gush has spent itself, in many cases it can be prolonged by supplying compressed air. After this stage pumping has to be resorted to, and then production falls to perhaps 15 tons per day. It is found that when a well has been pumped dry at the normal boring depth more oil can be got by boring deeper in the same spot. The field seems to be practically inexhaustible, and is believed to extend under the sea to the mainland of Borneo. Normally there are seven or eight gushers and over 100 borings being pumped at Tarakan.

Compared with coal-mining, oil-producing is a most cleanly and profitable pursuit. The automatic nature of oil-winning is eminently attractive. In coal-mining the real expense and danger begin when the shaft has been sunk and the seam reached. With oil, after the crust of earth covering the oil has been pierced, it may be said that nature does the rest. The simplicity of transport of oil fuel to the consumer and of the operations connected with its use still further point its superiority.

A little has been said of the natural beauty of Tarakan but the best remains. The most romantic river in the world glides for three miles from the edge of the oil field into the sea. The trees of the jungle extend into the very waters of this river—the silent flowing Parmoesen. Native canoes paddle up and down the river and add to the picturesqueness of the scene. Whether it be the depth of the river or the evenness of its bed, or whether it be that it has caught the infection of the oily neighborhood is not possible to say, but a wonderful stillness prevails about this tropic stream, and the most perfect reflections of the jungle trees clothing either bank and of the sky above can be seen on its face. Winding and twisting, its beauties are enchanting, and to a European safely placed in a seaworthy boat in midstream the fact that its banks harbor hosts of crocodiles detracts not one whit from its charms.

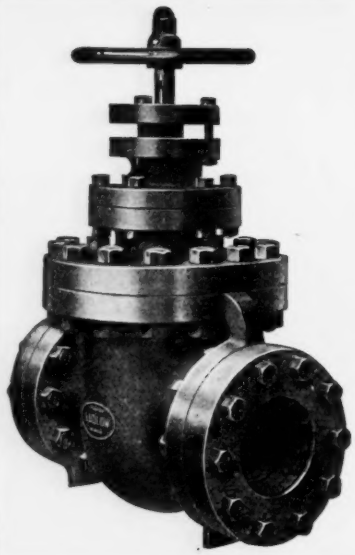
Tarakan is out of the run of the ordinary globe trotter and is probably never visited by other than those interested in, or connected with, crude oil, but Java is near and a boat from Batavia visits Tarakan fortnightly, and the opportunity, if it presents itself, should not be missed of seeing this wonderful island. Any Englishman can be sure of a warm welcome from the Dutch community. Honorary membership of the club and open-handed hospitality will assuredly be his lot.

"Harrisburg Forged Seamless Steel Products in the Oil Field" is the title of a very interesting booklet discussing Harrisburg forged seamless steel couplings, collars, forgings, and other oil field products. Copies may be procured from the Harrisburg Pipe & Pipe Bending Company of Harrisburg, Pennsylvania, or the Harrisburg Pipe and Pipe Bending Company, of Texas, Houston, Texas.

SWAN UNDERREAMERS

AT YOUR SUPPLY STORE

Made By BRIDGEPORT WICHITA



Simplicity

is one of the outstanding features of LUDLOW DOUBLE GATE VALVES. It is this fundamental principle of construction, plus first-class materials and a thorough knowledge of valve requirements that make LUDLOW VALVES the best valves that can be made.

Send for prices, catalog and complete valve information.

THE LUDLOW VALVE MFG. COMPANY

(Established 1879)

Branch Offices:
Kansas City, Mo.; Chicago, Ill.; Pittsburgh, Pa.; Boston, Mass.

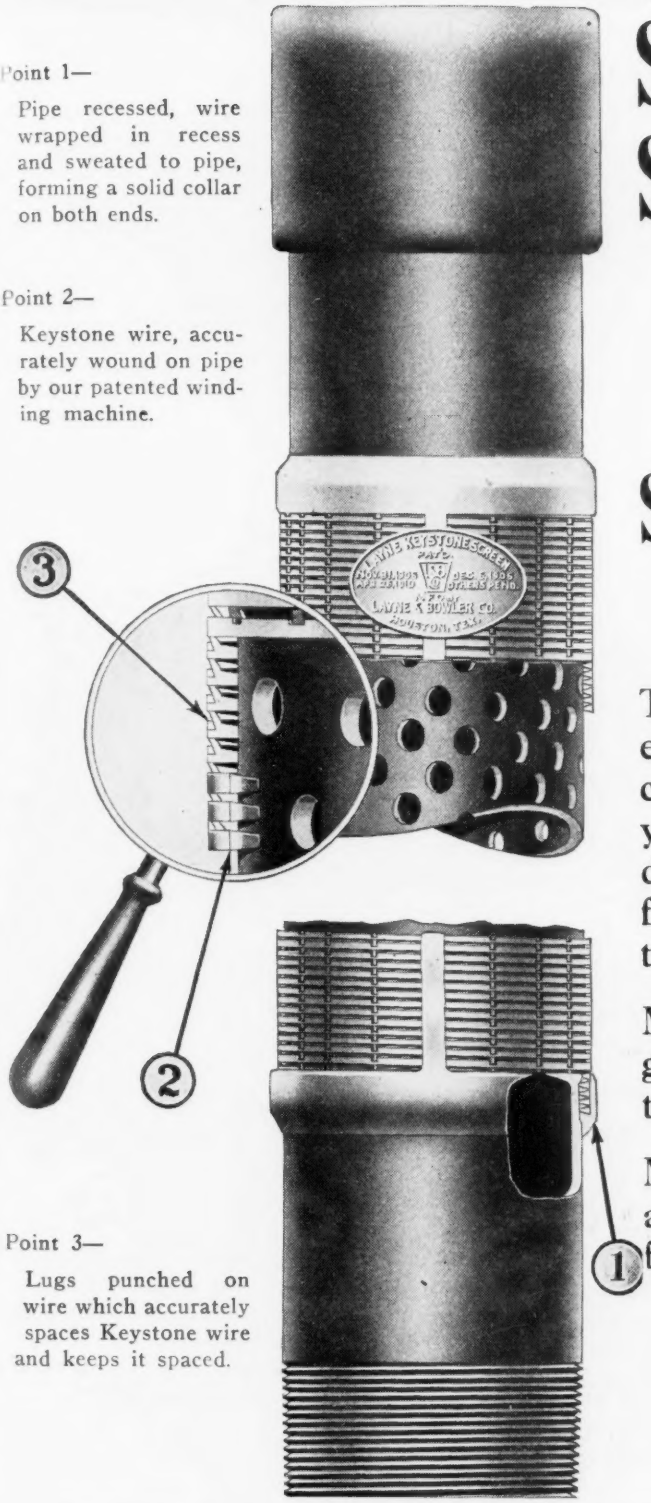
Factory:
Troy, New York

Point 1—

Pipe recessed, wire wrapped in recess and sweated to pipe, forming a solid collar on both ends.

Point 2—

Keystone wire, accurately wound on pipe by our patented winding machine.



Point 3—

Lugs punched on wire which accurately spaces Keystone wire and keeps it spaced.

Strainer Satisfaction

The Layne Patent Keystone Wire Wrapped

STRAINER

For Oil Wells

This strainer has been used extensively by principal oil companies for the past fifteen years, and is unexcelled for downright satisfaction and freedom from cleaning troubles.

Manufactured in brass or galvanized wire in any gauge to suit any formation.

Made on line and drill pipe and oil well tubing in sizes from 1 1-2 to 8 inches.

Phone Us Your Orders
We make your emergency our emergency

We are equipped to handle export orders

THE LAYNE AND BOWLER COMPANY

Factories:

Houston, Texas **Memphis, Tenn.**

Texas Company Pumps Three Wells With One Engine in Homer Field

SHREVEPORT, LA., Oct. 12.—Resulting in a big saving in the operating cost of producing wells, C. H. McDuff of the producing department of The Texas Company has a method for pumping three wells with one engine. The new idea has been in use for some time on the Texas Company's Lewis and Langston lease in the Homer, Louisiana, field, where Mr. McDuff is in charge of operations.

The company's No. 7 Lewis, which is pumped on the beam also furnishes the power for pumping 6 and 8 Lewis while Langston B-1 pumps B-2 and B-4. The accompanying diagram illustrates the method devised.

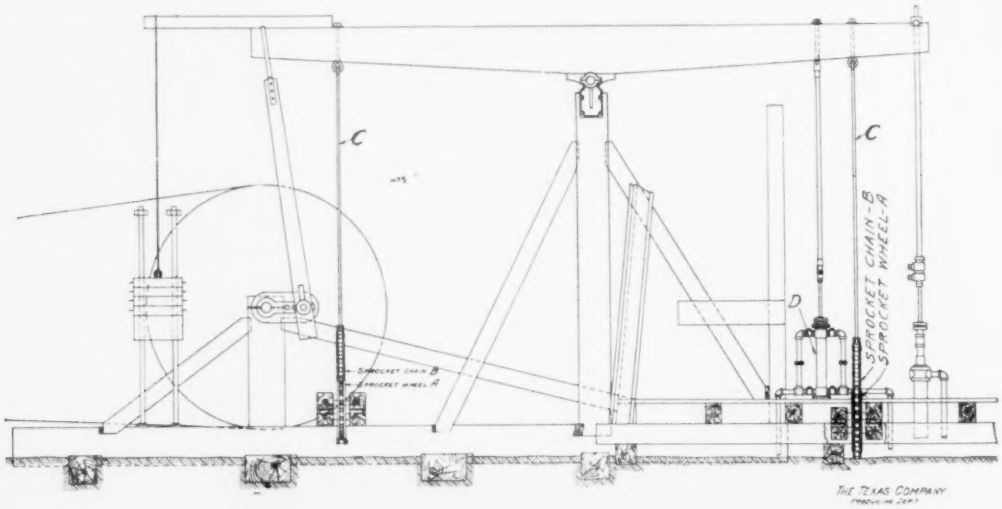
The engine operates the band wheel, walking beam and rods in the usual manner while to the walking beam are attached rods C and C to which are attached sprocket chains B and B. These chains are carried approximately 90 degrees around the hold down sprocket wheels A and A and in turn attached to pull rods running to other wells where they are connected to walking beams or jacks.

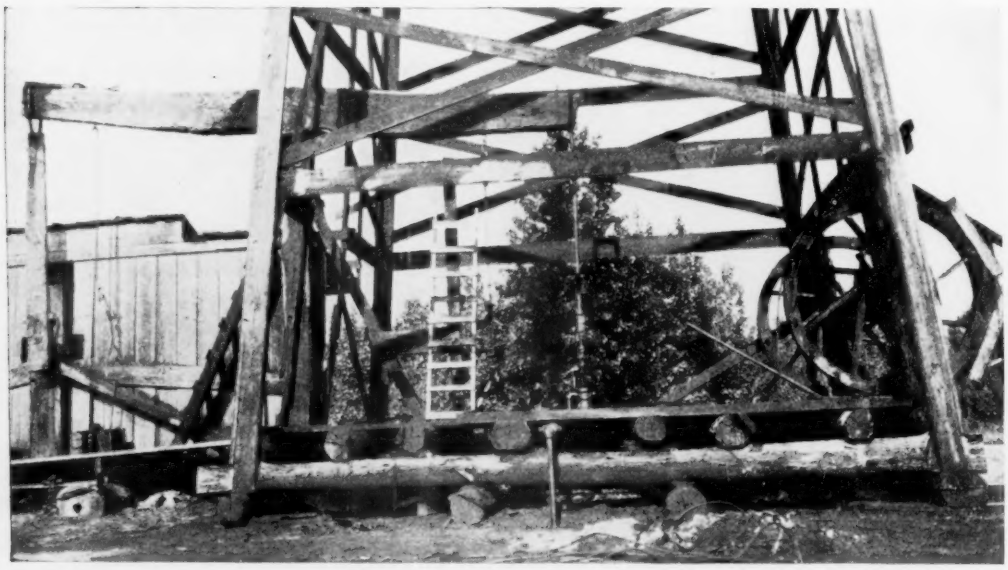
In the illustration the hold down sprocket wheels are shown at right angles to the walking beam but can be set at any angle to suit the location of the wells.

The pick up pump D takes oil from one or more wells and delivers it to a field tank of 100 barrels capacity, according to the amount of production, from which it is pumped to the pipe line receiving tank.

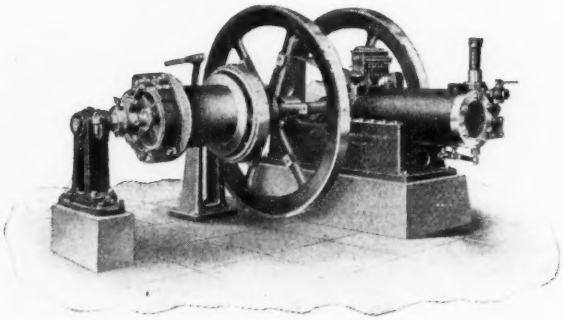
The use of Mr. McDuff's idea is described in a recent issue of the Texaco Star by A. B. Steen, chief engineer, mechanical engineering division, producing department, The Texas Company. Illustrations are used through courtesy of the Texaco Star.

Washington, D. C., Oct. 14.—Reports from Peking that a concession for oil development had been granted Sinclair by the Far Eastern Republic of Siberia is being investigated by the Japanese foreign office, information reaching here indicates. Already in some Japanese newspapers protests have appeared against the concession, which is on the island of Saghal'en.





Well operated by engine whose walking beam operates two other wells
Cut courtesy of Texaco Star



2,000 Feet of 10-Inch Hole Drilled with a 40 H. P. "Western" Oil Field Engine

Operating on distillate in the McKittrick, (California), field, this 40-H. P. "Western" Oil Field Engine and Reverse Gear was used to drill a 10-inch hole 2,000 feet deep, using a 2-pulley block and 10-inch, 40-pound casing, which they figured on setting at that depth.

After drilling to 2,000 feet, it was decided to pull out the casing and cement off at 1500 feet, which they did.

The "Western" handled the power requirements for the entire drilling job in a manner that was highly satisfactory to the management and crew, who were enthusiastic over its performance, and was then left on the lease for pumping.

"Western" Oil Field Engines for drilling and pumping oil wells, furnish efficient economical power and are absolutely dependable under the most severe service. Comparative figures covering performance, cost of operation and upkeep will interest you.

When writing mention Catalog No. 305

WESTERN MACHINERY COMPANY

GENERAL OFFICES & FACTORY 905 NORTH MAIN STREET
LOS ANGELES, CALIFORNIA, U.S.A.

SAN FRANCISCO CALIFORNIA | BAKERSFIELD CALIFORNIA | OKMULGEE OKLAHOMA

Standardization of Casing Is Nearer

Operators of Mid-Continent have committees at work and engineers asked to assist

DALLAS, TEXAS, Oct. 16.—That a new standard for casing used in the oil fields of the country will soon be a realization is the opinion of oil men who are members of the Mid-Continent Oil & Gas Association.

Early in February of this year the Texas-Louisiana division called a meeting of its executive committee to discuss standardization of casing. The appointment of a committee to work on the project was the result. This committee made its report and suggested that engineers be asked to assist and the matter is now receiving most careful attention of the best minds of the industry.

The history of the movement and what has been accomplished to date was covered thoroughly in a report given the recent meeting of the association at Dallas, as follows:

On February 8th at a meeting of the Executive Committee, the matter of the standardization of casing was discussed, and it was the sense of the meeting that the present standard sizes of casing used are frequently of insufficient strength for the depths at which they are used, and that the present standard sizes, owing to the long strings run, do not have sufficient clearance; that these sizes were originally adapted where standard strings of casing were required and of considerably less weight.

Committee Named

It was further the sense of the meeting that a Committee be appointed in the fields of North Texas, Louisiana and South Texas to investigate and report on casing requirements in the respective fields with the intent that owing to the new conditions arising from deeper drilling, new standards of sizes and weights of casing might be recommended as better adapted for use in particular fields, owing to the capacity of running longer strings of casing; that the Tulsa organization be requested to take the matter up and appoint a similar committee.

The president appointed the following committee: J. Edgar Pew, Chairman; W. W. Fondren, J. C. McCue, John Tucker, C. K. Clarke, C. H. Clark, J. Roby Penn, C. P. Clayton, H. J. Morlang, B. E. Byrne, H. H. Maddren, F. V. Faulkner, W. W. Fleming, F. L. Chase, John H. Williams, John B. Hofmeier.

This committee prepared questionnaires, which were mailed out to all members of the Association, asking for information regarding practices and customs prevailing in the fields in which they were interested, and asking their opinion on the various phases of standardization of casing.

This committee has had a number of meetings and have accumulated a mass of data and information on the subject.

Preliminary Report

The Committee has made the following preliminary report:

"It is the sense of the Pipe Standardization Committee, appointed by the Texas-Louisiana Division of the Mid-Continent Oil & Gas Association, that present pipe standards as applied to casing and tubing, do not meet the requirements of the trade, and are also expensive and impractical from the viewpoint of the manufacturers and jobbers. This is largely on account of new conditions arising, and of the different views of the users of pipe as to what is necessary to meet these, as well as the demand on the mills to make pipe if the varied requirements demanded by the numerous purchasers. The result is that there are really no suitable standards to meet all the present conditions particularly considering the deeper drilling requirements now existing.

"It is the sense of this Committee that the manufacture and use of casing and tubing should be investigated by a Committee of engineers representing all sections of the pipe using trade, and also the manufacturers; that this Committee should not only consider the new conditions that have arisen, but, insofar as it is possible, propose specifications that will be uniform and practical in all rotary and cable tool drilled wells. Also that this Committee should suggest a standard method of inspection of pipe, and standard rules and specifications covering what shall be considered the best practice in the making and use of casing and tubing.

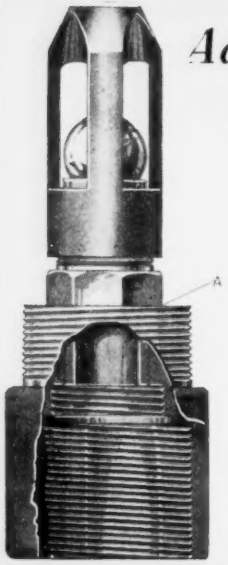
"It is desired that this Committee shall, insofar as it is possible and practical in the judgment of the Committee, prescribe as to weights, clearances, number and length of threads to the inch, taper, thickness and length of collars, the carbon relation between the pipe and the collar where steel collars are used, the method of making the best collars—whether lap or punched, the character of the thread on the pipe and collar, the question of recommendations as to the use of upset and tubing or casing, and under what conditions the same should be used and all other matters in connection with the manufacture and use of casing and tubing that will, insofar as it is possible, enable the operators in the fields to get the result of the best expert advice as to the casing and tubing to be used under the conditions existing, and also with the result that the material required under these conditions will be available for their use. Also with the further thought that this Committee will make any suggestions that, in the judgment of the Committee, are practical.

"The report of the Committee to be referred to the General Committee of the Mid-Continent Oil & Gas Association.

"The Committee herein referred to shall consist of two engineers representing the Texas-Louisiana work; two engineers re

SWAN
UNDERREAMERS

AT YOUR
SUPPLY STORE
Made By
BRIDGEPORT
WICHITA



Adams Combination Cuff and Standing Valve

Patent No. 1353303

Not necessary to use special cuff on working barrel—simply take a top cuff off of any old barrel and substitute for bottom cuff, then screw hydraulic valve in place.

Made of bronze with steel crown ball and seat.

Has a salvage value

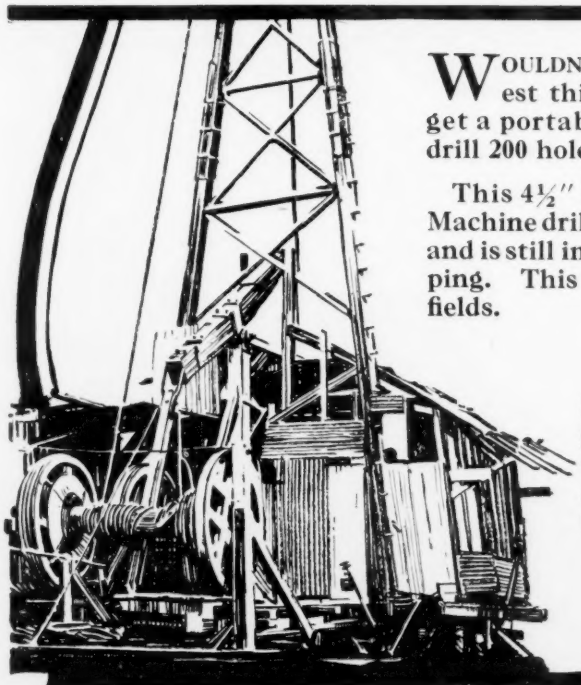
Sizes 1¾, 2¼, 2¾, 3¾ inches

Manufactured only by

Southern Brass Mfg. Co.

HOUSTON, U. S. A

Has this Drilling Machine
Any Limit - 200 Holes - Ready for More



WOULDN'T you consider it about the cheapest thing you ever bought if you could get a portable drilling machine that would drill 200 holes and be ready for more?

This 4½" Parkersburg Bull Rope Drilling Machine drilled over 200 holes for Mr. C. W. Ross and is still in first class shape, no signs of stopping. This was in mountainous Kentucky fields.

After all, has it a limit?

Work is built into Parkersburg Portable Drilling Machines. Just give them average care, and they will give you more than average service. Parkersburg "Service", that's why.

Write for Catalog C

The PARKERSBURG RIG & REEL COMPANY

MAIN OFFICE AND WORKS: Parkersburg, West Virginia
NEW YORK OFFICE: 30 Church Street, Room 1510

California Representatives: BUCK & STODDARD 485 California Street, San Francisco, Calif. 323 Union Oil Building, Los Angeles, Calif.

District Offices and Distributing Warehouses from which Parkersburg Service is Available

TEXAS
Houston
Breckenridge
Cross Plains
Graham
Iowa Park
Mexia
Orange
Ranger
Wichita Falls

LOUISIANA
Shreveport
Haynesville
Couchwood

WYOMING
Casper
Riverton
Osage

KENTUCKY
Bowling Green
Burkesville
Scottsville
Whitesville

W. VIRGINIA
Parkersburg
Clarksburg

MONTANA
Winnett
Kevin
Great Falls
Sunburst

KANSAS
Eldorado
Peabody
Florence
Virgil

ARKANSAS
El Dorado

OKLAHOMA
Tulsa
Bristow
Burbank
Drumright
Duncan
Henryetta
Wilson
Hominy
Okemah
Okmulgee
Pawhuska
Slick
Tonkawa
Barnsdall
Shidler

presenting the Oklahoma-Kansas work; two engineers representing California conditions; and one engineer representing Wyoming conditions, provided the same can be obtained. Also five or six of the various mills shall each be requested to furnish a member to serve on this Committee."

J. Edgar Pew was selected as General Chairman of the Committee, provided for in the foregoing.

Conclusions Reached

The following conclusions were arrived at as a result of the various conferences of the Committee:

"1. Generally speaking, the use of pipe for the same depth holes, regardless of the locality in which the same is used, requires the same specifications as to strength and sizes.

"2. On account of the multitude of varying specifications for the making of this pipe, principally from the variation in threads, in taper, in weight, etc., much confusion is created in the field. Pipe of different specifications get mixed, and is frequently used in the same string, too often resulting in plugged holes, or at least in expensive fishing jobs.

"3. On account of the too numerous specifications to accomplish the same purpose, any one of which is probably sufficient, increased costs of manufacture inevitably result.

"4. The so-called standards of pipe being made today, were adopted when wells drilled below 3,000 feet were the exception. Much of the present production is from wells drilled below 3,000 feet, and from depths which have been increasing each year, until at present a great number of wells and fields are producing their oil from depths of 3,500 to 4,500 feet. In addition to this it is the opinion of practical operators that there is much good production below this latter depth, which could be reached if casing suitable for these greater depths were available.

"5. It is possible for the larger operators to supply their needs by special orders placed with the mills, but these orders are filled at increased costs to them, over and above what the cost would be provided the mills were able to make a stock of pipe to meet these conditions, that would be accessible to all operators, large and small.

"Also, should the mills make this stock, the same would be available for the smaller operators, and thus greatly benefit the business as a whole.

General Specifications.

"It was the sense of the Committee further, that general specifications might be arrived at:

"Covering the thread to be used on the various sizes of casing as to number of threads, style of thread, and length of thread.

"Covering the weight of casing for use at different depths.

"Covering the length and thickness of collars.

"Covering the clearances necessary between the strings of casing.

"Covering the carbon ratio, if steel pipe is used, between the collar and the pipe.

"Covering the length of the recess in the collar.

"6. That certain well defined rules of inspection, and of requirements should be set forth, for the protection of the manufacturer as well as the operator. This would apply to compliance with the specifications, as well as variations in weight and tolerance allowances, and other necessary tests to determine what should constitute a standard grade of pipe."

SWAN UNDERREAMERS

AT YOUR SUPPLY STORE

Made By BRIDGEPORT WICHITA

Celebrated Tommy Atkins Case Now Before Supreme Court

Tulsa, Okla., Oct. 18.—Tommy Atkins is in court again. This time it is the supreme court, a step upward for Tommy, who has been familiar to state and federal courts of Oklahoma for many years.

It is now up to the justices of the nation's highest tribunal to determine who was the mother of Tommy Atkins, a Creek Indian youth, now dead, whose allotment from the Creek reservation is valuable because of oil.

Charles Page, Sand Springs millionaire, bought the Tommy Atkins allotment from Minnie Atkins, Creek halfblood, who claimed ownership as the mother of Tommy, whom she said died as a minor. Minnie Atkins is now dead.

Later came Sally Atkins, another Creek Indian, claiming to be the mother of Tommy Atkins, deceased. Then the federal government entered the case, asking the cancellation of the land patent on the ground that Tommy Atkins was a myth. To further complicate the case, one Henry Carter entered claim to the property, declaring himself to be "Tommy Atkins," dead by two counts.

The claim of Charles Page to ownership of the Cushing lease has been upheld by the lower federal courts. If the supreme courts find the lower courts correct, he will have title to the 160 acres, valued at $4,000,000 in oil recovered and yet to be recovered.

Eastern Oil Takes Over Okla. Natural Holdings

Tulsa, Okla., Oct. 16.—Oil and gasoline holdings of the Oklahoma Natural Gas Company are to be taken over by the Oklahoma Eastern Oil Company, formed for the purpose. Stockholders of the gas company have been informed they can subscribe for two shares of stock in the oil concern for every share of gas stock held at par value of $1 a share.

The Oklahoma Eastern Oil Company will have capital of $1,200,000. Since there are only 572,000 shares of gas company stock, only 1,144,000 shares of oil stock can be subscribed, at two shares for each gas company share. The remaining 56,000 shares of stock in the oil company will not be issued.

From the money realized from sale of the stock, the Oklahoma Eastern Oil Company will buy the oil and gasoline properties of the Oklahoma Natural Gas Company. These consist of 3050 acres of produring leases with equipment, 21,450 acres of undeveloped leases, with natural gasoline plants at Kellyville, Rush Springs, Stroud, Blackwell, Morrison and Shamrock.

The privilege of subscribing to stock is limited to holders of shares in the gas company on record Oct. 2, 1922. Payment must be made in full on or before Nov. 1, 1922.

The oil company will pay $800,000 in cash for the properties, leaving $344,000 for working capital.

ATLANTIC LOBOS WILL CONTINUE IN MEXICO

Philadelphia, Pa., Oct. 7.—Regarding the report that the Atlantic Refining Company had ceased all operations in Mexico, John H. Stone, general counsel of the company, has given out the following statement:

"The report alleging abandonment of operations in Mexico by the Atlantic Refining Company was not authorized and creates a false impression. The Atlantic Refining Company does not operate in Mexico, but it owns one-half of the capital stock of the Atlantic Lobos Oil Co. The latter company's operations through subsidiaries in Mexico have not been abandoned."

TULSA BOILER AND SHEET IRON WORKS
ENGINEERS MANUFACTURERS AND ERECTORS
OIL REFINERY WORK STORAGE TANKS BOILERS SUPPLIES AND REPAIRS
STEEL PLATE CONSTRUCTION
STACKS RIVETED PIPING PRESSURE TANKS, ETC.
BOX 1926 - TULSA, OKLA.
PIONEERS IN MID-CONTINENT FIELD SPECIALIZING ON
CRUDE STILLS, AGITATORS, COND. BOXES
VAPOR TOWERS AND ALL OTHER
REFINERY TANKAGE

Phillips Petroleum Co., Gasoline Plant, Dewey, Okla.
Foxboro Equipped

J. M. Huber, Carbon Plant, Swarty, La.
Foxboro Equipped

PROTECTION Against Measurement Troubles

Hundreds of experienced oil and gas men specify Foxboro Orifice Meters, Thermometers and Gauges in order to protect themselves against unnecessary and often serious losses due to inaccurate measurements or failure of instruments to stand up under long, severe service.

Every Foxboro Instrument is built down to the last detail by Foxboro experts and must meet the Foxboro quality test. Foxboro Instruments are of the latest improved design and have many valuable features not found in other instruments.

You are taking no chances when you select Foxboro equipment.

For complete information, get in touch with our nearest representative or write to Dept. N

THE FOXBORO COMPANY, Inc., Foxboro, Mass., U. S. A.

213 S. Cincinnati Ave., Tulsa, Okla.

New York Chicago Boston San Francisco Pittsburgh Philadelphia Birmingham

FOXBORO
TRADE MARK

118-198

Reading Steel Fittings

DEPENDABILITY, indefinite life and freedom from costly shut-downs due to breakages make READING Cast Steel Fittings cheapest in ultimate cost..

The Reading foundry produces steel exclusively, and has specialized on castings for pressure service. Hence the foundry practices are designed particularly to give the castings the characteristics necessary for valve and fitting castings.

Reading Steel Casting Co., Inc.

Reading Valve & Fittings Div., Bridgeport, Conn.

Carried in stock by Norvell-Wilder Hardware Company, Beaumont, and Houston, Texas

DISTRICT SALES OFFICES:

Boston Cleveland New York Pittsburgh
Charlotte Detroit Houston San Francisco
Chicago Hartford Philadelphia St. Paul

Henry L. Doherty Tells Story Of Fight to Control Pierce Oil

Richmond, Va., Oct. 16.—The application of the Untermyer interests for an injunction against the Pierce Oil Corporation board of directors was refused here today by the Probate Court.

NEW YORK, Oct. 14.—Henry L. Doherty this week released for publication the following explanation of the fight being waged for control of the Pierce Oil Corporation addressed to the holders of preferred shares in the Pierce Corporation:

To the holders of preferred shares of the Pierce Oil Corporation:

I went into the Pierce Oil situation believing that I had the friendship and confidence of every one interested in the matter and would be able to work out plans that would please everybody.

The story has been circulated that I came into this situation purely as a matter of friendship for H. Clay Pierce. I enclose you reprint from the "New York American" of Sunday, October 8th, which includes that point. Let me put you straight on this. There has been scarcely any connection between the Pierce interests and my interests, and what little there was, had been to make me unfriendly to the Pierce corporation and the Pierce family. I met Eben Richards, Mr. Pierce's son-in-law, for the first time on Friday, at noon on September 29th, and I met H. Clay Pierce for the first time that same evening, and Clay Arthur Pierce for the first time on the following Sunday.

It is true that I dislike to see any man humiliated and his business taken away from him and my impulse is always to help him, whether he is a friend or a foe. It is also true that I dread to see a fight over control of a corporation, for the stockholders' interests are always hurt and especially is this so when the fight is between rich men with strong personal feelings which are more important to them than personal money losses. They may feel able to afford to throw the fat in the fire but there are thousands of stockholders as a rule who can ill afford to have the fat thrown in the fire.

Now, while I always want to protect the man whose business is at stake, and the innocent shareholder who wants dividends instead of the personal gratification of winning a fight, nevertheless, I went into this deal primarily because I thought it was a good business deal and expected to make money out of it. Of course I cannot do this until I have the Company earning money much in excess of your dividends, and not only have your preferred stock on a regular dividend basis but have your back dividends paid up as well.

I believed it was essential to reach an agreement with Mr. Pierce first and if I could succeed in that I felt confident of reaching an agreement with the preferred stockholders, for I had no thought in mind other than to help the Company and to benefit and protect all classes of security holders and to start regular payment of dividends on the preferred stock.

Under my contract with Mr. Pierce I was required to immediately advance funds to the Company and assist the Company in other ways, and yet I could receive no benefits or profits until a second preferred stock had been created and until the notes given me for money advanced to the Company had been converted into this preferred stock par for par. All dividends and profits to accrue to me were only after dividends had been paid on the preferred stock and then only when and as dividends were paid on the common stock.

The officers of the company had made an estimate of the funds needed by the Company and I undertook to provide these funds and also to provide oil supplies and assistance in many other ways.

The officers of the Company represented to me that certain persons who assumed to represent the holders of preferred stock were and had been for many months past doing all they could to cripple the Company to a point where it would be unable to earn and pay its preferred stock dividends, and thereby force a default which would enable these persons to secure control of the Company for purposes prejudicial to all classes of security holders.

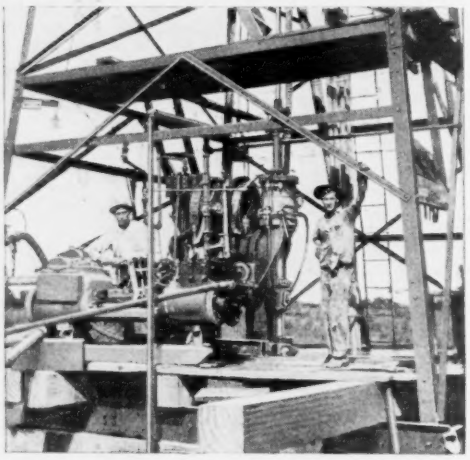
I listened to these statements but did not commit myself to these views, holding strongly to the belief that I could straighten out all of these matters. I provided the funds on September 30th so the Company would be in shape to pay the quarterly dividend on Monday, October 2d. Much to my surprise the members of the Board claiming to represent the preferred stock refused to pay this dividend although the Company had ample surplus to justify this dividend and the cash was available. The reasons given for this action were so remote and artificial as to leave the impression that the real reasons could not be given.

I was called to Judge Alton B. Parker's office on Monday afternoon, October 2, 1922, and Judge Parker said that it was his opinion that a default would be claimed and that unless a contest could be averted he feared the future of the corporation was in grave danger and the stockholders' value would be seriously impaired. Judge Parker recommended the immediate election of a new board the majority of whom would be free from any participation in past controversies. I agreed to go on such a board if Judge Parker would do the same and help to induce other men to do so who would be impartial and who could command the confidence of all security holders. Such a board was immediately selected and elected.

The action of some of the people who are assuming to represent the preferred stockholders and who are amongst those soliciting your proxies have been alarming to me. I hoped I could avoid making any statement regarding this entire matter either to the press or to the stockholders, and especially avoid any statement which must question the good intentions of others, but it has become impossible for me to remain silent and yet properly dicharge the trust I have assumed at Judge Parker's request.

I spent nearly five hours Friday night trying to show some of the members of the other proxy committee a way to

DIAMOND DRILL YOUR LEASE



Sullivan "P-2" rig that drilled 1950 feet in 29 working days in Mexico

For speed, low cost and accuracy in information obtained, bore your wildcats or your producing wells with Sullivan Diamond Drills.

In wildcatting, or oil prospecting, the solid cores of rock recovered by this means show definitely whether oil is or is not present.

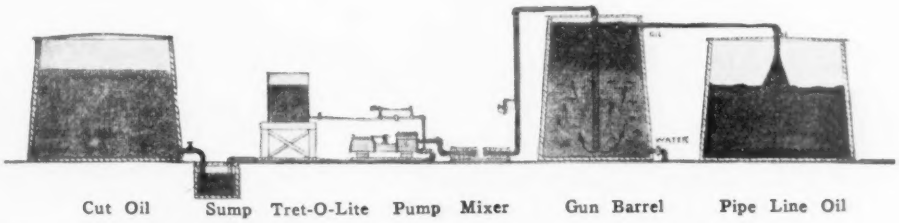
In drilling producing wells, the low weight of the outfit (one-fifth to one-third that of other rigs), the avoidance of much of the casing, and the ability to control the flow are speed and economy factors of great value.

Special Oil Drilling Bulletin, No. 4269-0

SULLIVAN MACHINERY CO.

122 S. Michigan Av., Chicago

331 West. Indem. Bldg., Dallas, Tex.



Tret-O-litE

YOUR OIL

Best process for recovering pipe line oil from Cut Oil, Tank Bottoms and other Crude Oil emulsions Simple, Efficient and Economical

PROCESS PATENTED

NOTE:—The Barnickel processes for treatment of Cut Oil, Tank Bottoms and other Petroleum emulsions by the use of chemical agents are protected by valid process patents issued by the United States Patent Office and sustained in the Federal Court They are also protected by foreign patents.

The chemical compounds manufactured and sold by us under the trade mark Tret-O-litE are most efficient for practicing the Barnickel processes.

The purchaser of Tret-O-litE is licensed to practice the Barnickel patented processes to the extent permitted by the quantity of Tret-O-litE purchased. He is not licensed to use any other chemical covered by the Barnickel patents either alone or with Tret-O-litE.

WM. S. BARNICKEL & CO.
ST LOUIS, MO

We have a considerable number of contract jobbing customers who tell us the uniform quality of our lubricating oils is a consistent business builder for them.

A trial order is the best method we know of convincing you that we can help you to substantially build up your business.

Sales Offices:
Binz Bldg., Houston, Texas
66 Broad Street, New York City
Transportation Bldg., Chicago, Ill.
Clarendon, Pa.

WHITE Oil Corporation

Texas Company's No. 7 Lewis, showing casinghead and polish rod operated direct for the first well and one of the chains from the walking beam leading off to another well. Story on page 76.

work the situation out to the benefit of all. I know I had their desire to cooperate and thought I was making splendid progress. Litigation, however, was imminent, which I felt might prove exceedingly harmful to the Company. If one side started, the other must counter. Notice of litigation was served by Mr. Untermyer, who is acting as the attorney and advisor for the Mr. Lehman's committee. Mr. Pierce was prepared to counter. After a great struggle with Mr. Pierce I secured a promise of a truce to give me time to work out an agreement between the opposing factions.

I then called at Mr. Lehman's office upon the same mission, and after discussing the matter with him we both talked on the telephone with Mr. Samuel Untermyer, but Mr. Untermyer would not consent to postpone the litigation for which he had previously served notice. By the way, Mr. Untermyer is, in my opinion, the author and real leader of this controversy. I might also say that I was unable to give Mr. Untermyer all my reasons why he should agree to a postponement. He requested that I go out to Greystone and see him, but my engagements would not permit me to do this. However, we talked for some time on the telephone, or perhaps I should say that he did most of the talking and I did most of the listening, and I concluded that a visit would promise little good and perhaps much harm, for Mr. Untermyer gave me the impression of either having an intense personal feeling in this matter or else his many successes have led him to take the attitude in any conference, that he expects mostly silence from the others, and strict attention as to what Mr. Untermyer may say.

I then returned to the Pierce office only to receive another disturbing piece of news. Mr. Tinker, President of the Chase Securities Co. is a member of Mr. Lehman's committee which is asking for your proxy. The Pierce Oil Corporation owed the Chase Bank $1,000,000. On September 28th the Chase Bank agreed in writing to renew this loan. On Friday, October 6th, the Pierce Oil Corporation sent over to the Chase Bank new notes and a check for the interest. On Saturday after banking hours the Pierce office received from the Chase Bank a communication stating that the loan would not be renewed and demanding that payment be made on Monday morning, October 9th. This refusal to renew was based on a mere technicality which in no way impaired the safety of the loan. Naturally the officers of the Pierce Corporation were greatly disturbed and very much incensed by this action. I realized the officers of the Corporation would have insufficient time to negotiate a new loan and so I promised to personally pay off this loan to the Chase Bank on Monday morning and to carry it for the Pierce Company until they could liquidate it or place it elsewhere. On Monday morning my representatives went to the Chase Bank to take up their million-dollar loan. While my representatives spent nearly all day trying to take up this loan, Mr. Tinker gave less than five minutes time to them. He also gave evidence of considerable personal feeling in the matter. They tried all day to take over the Chase loans and assume the Chase position as to security, but without success and through no fault of their own. My representatives had my check and were prepared to make a tender in gold coin if the check was refused.

I am enclosing you a photographic copy of the check, so that in event a default is claimed you will know it was not because the funds were not available. You will also note that the check was certified.

Now what I am telling you here is just a few of the high spots and big difficulties which I am experiencing in trying to protect your interests. I am sorry that I have been compelled to speak for I have been trying to play the role of peacemaker, and by being compelled to tell you what is going on behind the scenes my heretofore cordial relations with all of these interests may be impaired.

The fear of a default, with the evil effects of a contest over the control of your Company, brought such fear to the few stockholders who knew and understood the situation that the preferred stock was forced to a market quotation of $32 per share and the common stock to $5.75 per share, even before a default had occurred.

Judge Parker's prompt action and effective methods not only prevented the stock from going to lower levels but caused it to immediately react towards old time levels. However, the announcement of an opposition Reorganization Committee not only checked this upward tendency but caused the market to slightly react.

So long as control of the Company is a matter of controversy the credit of the Company will remain impaired or be completely destroyed and the stocks will be depressed accordingly and will present an

SWAN
UNDERREAMERS

AT YOUR
SUPPLY STORE
Made By
BRIDGEPORT
WICHITA

TRANSIT PUMPS

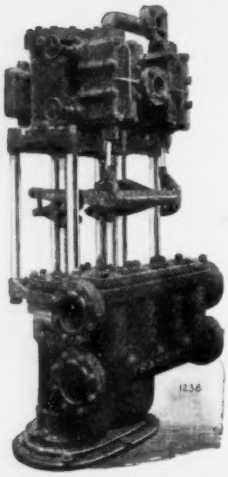


Fig. 1238—12x8x12"

Vertical Duplexes

Vertical pumps are always desirable where the floor space is limited. The fluid valves are so arranged that the pistons are always submerged.

The steam cylinders, fluid cylinders and stuffing boxes are relieved of the weight of the reciprocating parts, a condition conducive to longevity.

Many prudent pipe line and refinery men prefer these vertical duplex pumps on account of these advantages.

Bulletin 101 describes these pumps

NATIONAL TRANSIT PUMP & MACHINE COMPANY

OIL CITY, PA.

District Offices: New York, Philadelphia, Pittsburgh, Cleveland, Kansas City, Houston and Denver.

FROM END TO END

There Is Uniform Quality

Uniform Toughness
Uniform Hardness

Accurate To Size

HOUGH SEAMLESS STEEL WORKING BARRELS—Excel in Dependable Working Qualities

STRONG—DURABLE

The Label is a Guarantee of HOUGH Quality

Your Dealer Will Supply You

The Charles N. Hough Mf'g. Co.

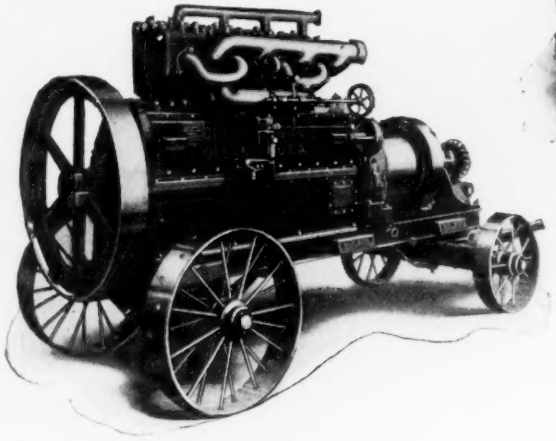
"Where the Reliable Oil Well Supplies Come From"
Oil Well Specialties—Pumping Equipment.

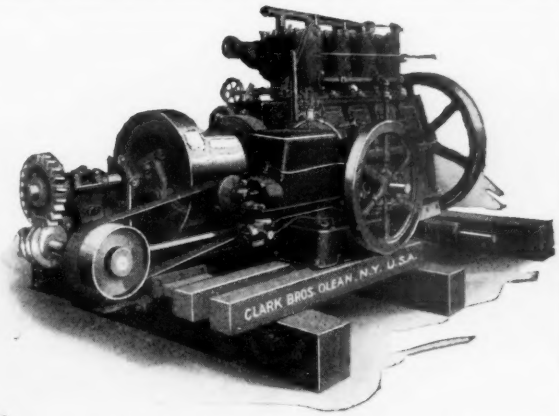
FRANKLIN, PENNSYLVANIA

Manufacturers of the Famous STEELEX and BRONZEX Balls and Seats

SOME FEAT!

Clark gas, gasoline Drilling Engine drills 5025 feet of 8-inch hole on wildcat well near Barstow, Texas, for the Pinal Dome Oil Company. This is one of the deepest holes ever drilled in Texas but it is not an unusual performance for the Clark Engine. One of our users states that it handles the tools at this depth just as well as at 2000 feet.





GASOLINE MOTOR SINKS WILDCAT WELL 5,025 FEET

Barstow, Tex.—The Pinal Dome Oil Co. recently abandoned a wildcat hole after reaching a depth of 5025 feet. The well, one of the deepest ever drilled in Texas, was put down all the way with a gasoline motor. Another remarkable fact about the well is that no casing was used except near the top of the well and when the work was stopped the bit was making 8-inch hole.

Manufactured by

CLARK BROS. COMPANY, OLEAN, N. Y.

THE NATIONAL SUPPLY COMPANIES

Exclusive Sales Agents

Principal Offices:

Toledo, Ohio
Pittsburgh, Pa.
New York, N. Y.
Houston, Texas
Tulsa, Okla.
Ft. Worth, Texas
Independence, Kan.
Casper, Wyo.
Los Angeles, Calif.
Tampico, Mexico

opportunity which will be an invitation to bear raiders.

Mr. Untermyer's refusal to grant me time for harmonizing the differences between Mr. Pierce and Mr. Lehman's committee seemed to make litigation by Mr. Pierce inevitable. Mr. Pierce was prepared to ask for a sweeping injunction on Monday. In spite of the fact that the attorneys for Mr. Pierce advised that there was every reason to believe that such an injunction would be granted, nevertheless I have since induced Mr. Pierce to allow Mr. Untermyer to be the aggressor.

The litigation started by Mr. Untermyer will probably require a complete audit of the Company's affairs and possibly a valuation of the Company's physical property and therefore a final decision may not be reached for many months, and demoralization of credit both for the Company and its securities will prevail until a final decision can be reached, unless some other means can be found to settle this controversy.

Therefore, upon careful thought it will be obvious to you that there is now but one solution to our problem and that is for the preferred stockholders to lodge their proxies with Judge Parker's committee.

When this committee can announce that they have enough proxies to control any election which may be held, three things will happen. 1st, the Company's credit will immediately be improved and the foundation will be laid which will enable its credit to be quickly and completely rehabilitated. 2nd, the panic condition which now prevails with many stockholders will be removed and market values will move up to new levels, and 3rd, in my opinion we will have no trouble in arranging matters to the entire satisfaction of all of the opposition proxy committee who are free from personal feelings in the matter. So whether you have already, through a misunderstanding of the true conditions, given your proxy to Mr. Lehman's committee, I recommend that you send to Judge Parker's committee a new proxy with a subsequent date.

During the period which must elapse to determine which committee the preferred stockholders will elect to support, I will continue to give the Company whatever assistance I can to protect the Company from assaults whether such assaults come from within or from without.

I think I would be justified in asking the preferred stockholders to not only give me their support by sending in their proxies but also to join me in furnishing such funds as must be provided to meet this crisis. This latter, however, I do not expect to do and it is a pleasure for me to tell you that I think you can feel assured that I will be able to give the Company what assistance it may need to take care of the present emergencies. To avoid hampering the Company credit by leaving it a matter of speculation as to what I may do if I hold a large amount of the Company's indebtedness and then find that the stockholders have chosen to support the opposition committee, let me say that I am an engineer by profession and my instinct is to build and not to destroy, and I have no purpose to embarrass the company, whether you see fit to support me or not. However, I will greatly appreciate your support. I enclose two proxies, one a regular proxy of Judge Parker's committee, and another one a personal proxy to me. Sign which ever one you like, but I want you to thoroughly understand that I am working in full accord with Judge Parker's committee.

I am going to recommend to both committees that we compare our proxies, and if the opposition committee question the proxies which we hold which had previously been given to them, we will give them ample opportunity to verify the real wishes of the stockholder.

HENRY L. DOHERTY.

Quality, performance and price; and the greatest of these is—but why worry which is the greatest when in each the Williams pipe threader meets the buyer's ideal

The Williams family has many homes

GO INTO any large railroad shop, any industrial center or any mining operation, and you'll invariably find one or more members of the Williams family.

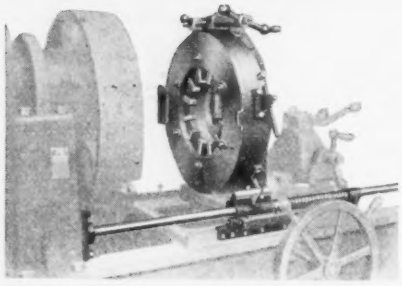
It may be the baby of the family, whose specialty is threading and cutting off pipe from ¼" to 2"; or it may be the big fellow who threads and cuts 6" to 16" pipe; or it may be one or a dozen divided among the other six members. Regardless, they all subscribe to the Williams family doctrine "to thread pipe better, quicker and at lower cost."

Do you know about the new Williams head that has added new fame to the long list of Williams achievements? It is unique in that it threads any degree and length of taper irrespective of the width of the die.

If you don't know the money-saving advantages of this Williams Patent Receding Die Head drop us a line. We suggest you do it now.

WILLIAMS TOOL CORP.
Erie, Pa.
Canadian Plant: Bradford, Ontario

WILLIAMS
Pipe Threading Machines



The New Williams Patent Receding Die Head

1. Any length and degree of Taper may be cut without reference to the width of the die.
2. By changing dies and taper guide any thread or taper may be cut.
3. MORE DIES are used than previously, making less work for each die.
4. Since the dies open up as the cut proceeds much less power is required.

NUMBER EMPIRE DIRECTORS IS INCREASED TO FIFTEEN

Bartlesville, Okla., Oct. 14.—The board of directors of the Empire Gas and Fuel Company has been increased from seven to fifteen members by action of the company's stockholders.

The new board is composed of the following members: Henry L. Doherty, chairman; H. R. Straight, H. O. Caster, Ray C. Russum, H. L. Stuart, Waddill Catchings, C. I. Stralen, Herbert Lehman, Milan R. Bump, Warren W. Foster, Harry D. Frueauff, W. A. Jones, Louis F. Musil, John M. McMillan, W. A. Sinsheimer.

Tulsa, Okla., Oct. 17.—Chas. F. Bowles, vice president and general manager of the Gladys Belle Oil & Refining Company, has left Tulsa for Great Falls, Montana, where he will have charge of development of his company's properties in the Rocky Mountain territory. This concern has been formed to take over the properties assembled by Grant C. Stebbins of Tulsa

Record Gasoline Consumption in August

But production in U. S. shows a decrease of 3.5 per cent that month

WASHINGTON, D. C., Oct. 14.—A new high record for consumption of gasoline in the United States was attained in the month of August, according to statistics compiled by the Federal Bureau of Mines, which show a domestic usage of 583,687,932 gallons. Consumption of gasoline in August was 3.1 per cent greater than July, in which month a record consumption mark had also been established. Consumption figures for this August represent an increase of 16 per cent over the statistics for August 1921.

Production of gasoline during August amounted to 549,958,376 gallons. The figures represent a decrease of approximately 20,000,000 gallons, or 3.5 per cent from the July output, which set a new monthly record for gasoline manufacture. Stocks of gasoline on hand September 1, amounted to 703,738,310 gallons, a decrease of 69,000,000 gallons during the month.

Exports of gasoline in August amounted to 35,747,004 gallons, a decrease of 23,000,000 gallons compared with July. Imports were 2,829,062 gallons, a decrease of about 2,000,000 gallons. Shipments to insular possessions were 2,523,141 gallons.

During August the daily average of 1,571,000 barrels of oil run through the stills of 295 refineries reported to the Bureau of Mines as operating shows a decrease of 1.38 per cent in the amount of oil run and a decrease of 10, or 3.28 per cent, in the number of operating refineries as compared with July. Taking into consideration the greater decrease in the number of operating refineries, there is shown a relative increase of 1.96 per cent in the amount of oil run.

The kerosene output in August amounted to 184,382,897 gallons, a decrease of 4.4 per cent from the production for the previous month. Stocks of kerosene on hand September 1 were 285,520,131 gallons, a decrease of 12 per cent. Exports and shipments to insular possessions amounted to 87,316,297 gallons, an increase of 36,500,000 gallons over the July figures.

Production of gas and fuel oils in August amounted to 944,289,105 gallons, which is a slight decrease. Stocks of these oils on September 1 were 1,366,611,311 gallons, an increase of about 8,000,000 gallons.

The output of lubricating oils in August was 88,824,133 gallons, a decrease of about 3 per cent. Stocks of lubricating oils on hand September 1 amounted to 220,668,498 gallons, a decrease of 6,000,000 gallons. Exports and shipments to insular possessions amounted to 27,244,801 gallons.

New York, N. Y., Oct. 14.—The annual meeting of the Turman Oil Company, which was to have been held October 10, has been postponed until October 19. Turman Oil is operating subsidiary of Middle States Oil Corporation.

GASOLINE STATISTICS

	August, 1922	July, 1922	August, 1921
Stocks first of month	772,908,949	824,966,456	684,236,695
Production	549,958,376	569,711,415	431,577,195
Imports	2,829,062	4,840,098	5,097,399
Total	1,325,696,387	1,399,517,969	1,120,911,289
Exports	35,747,004	58,630,402	47,830,586
Shipments to Insular Possessions*	2,523,141	1,866,789	1,921,692
Domestic consumption	583,687,932	566,111,829	503,513,463
Stocks end of month	703,738,310	772,908,949	567,645,548
Total	1,325,696,387	1,399,517,969	1,120,911,289
**Daily average prod.	17,831,853	18,533,920	14,086,277
***Daily average consumption	20,963,164	20,213,193	17,847,282
Excess cons. over prod.	2,231,311	1,679,273	3,761,005

*Include Philippine Islands, Alaska, Hawaii and Porto Rico.
**Including imports.
***Including exports and shipments to Insular Possessions.

The production of gasoline during August decreased approximately 20,000,000 gallons or 3.5 per cent from the July output. Imports decreased about 2,000,000 gallons (41.55%) and exports declined about 23,000,000 gallons (39%). Consumption in August was 3.1 per cent greater than in July and 16 per cent above the figure for August, 1921. Stocks decreased 8.75 per cent in August.

	Aug. 1921 Aug. 1922	July, 1921 July, 1922	June, 1921 June, 1922	May, 1921 May, 1922
Increase in domestic production	27.43%	35.76%	22.21%	14.51%
Increase in domestic consumption	15.92%	23.67%	13.92%	40.97%
Increase in domestic prod. and imports	26.59%	36.55%	21.66%	16.09%
Increase in dom. cons., export and ship.	12.42%	28.62%	15.69%	40.76%
Increase in domestic stocks	23.97%	12.96%	9.90%	7.01%

STOCKS ON HAND AT THE REFINERIES AUGUST 31, 1922

1922	East Coast (N.Y., Phila. & Balt.)	Pa., N. Y., East Ohio & W. Va.	W. Ohio, Ind., Ill., Ky. & Tenn.	Oklahoma & Kansas	Texas
Crude Oil (bbl.)	11,161,271	1,081,702	565,799	2,067,904	9,194,486
Oil purch. to re-run (bbl.)	195,513	36,283	187,206	9,646	2,238
Gasoline (gal.)	156,546,341	17,431,371	106,614,699	113,099,356	98,925,073
Kerosene (gal.)	89,280,170	12,415,104	27,155,324	33,981,365	66,812,812
Gas and Fuel (gal.)	343,774,333	24,196,556	24,170,455	128,323,491	335,513,023
Lubricating (gal.)	86,197,487	37,967,681	19,257,124	15,080,524	43,475,117
Wax (lb.)	68,485,652	26,736,393	24,883,832	5,061,863	11,265,340
Coke (ton)	20,034	677	9,670	3,684	7,122
Asphalt (ton)	79,300	3,290	8,514	188	23,839
Miscellaneous (gal.)	178,987,747	33,397,486	42,718,964	72,084,606	207,050,541

	Louisiana and Arkansas	Colorado & Wyoming	California	Total stocks end of August 1922	1921
Crude Oil (bbl.)	5,176,519	2,452,158	2,330,080	34,029,919	16,374,050
Purch. to re-run (bbl.)	.....	114,187	428,974	974,047	878,099
Gasoline (gal.)	66,129,111	100,816,651	44,175,708	703,738,310	567,645,548
Kerosene (gal.)	27,976,976	1,831,913	26,066,467	285,520,131	389,893,421
Gas and Fuel (gal.)	207,737,407	29,811,155	273,085,191	1,366,611,611	1,243,445,980
Lubricating (gal.)	3,385,364	1,873,994	13,431,207	220,668,498	242,530,099
Wax (lb.)	79,086,384	3,385,789	816,588	219,721,841	244,111,173
Coke (ton)	.....	3,218	.....	44,405	67,981
Asphalt (ton)	15,546	255	11,135	142,067	89,939
Miscellaneous (gal.)	95,230,334	54,006,369	157,846,485	841,322,532	696,701,755

OUTPUT OF REFINERIES IN THE UNITED STATES FOR AUGUST, 1922

1922	East Coast (N.Y., Phila. & Balt.)	Pa., N. Y., East Ohio & W. Va.	W. Ohio, Ind., Ill., Ky. & Tenn.	Oklahoma & Kansas	Texas
Crude Run (bbl.)	8,795,697	1,947,835	3,983,218	6,275,614	8,659,247
Purchased and re-run (bbl.)	910,720	97,340	429,868	588,073	548,487
Gasoline (gal.)	104,986,924	26,699,267	77,727,524	105,042,619	86,351,916
Kerosene (gal.)	47,043,425	11,497,704	16,903,075	26,561,703	41,361,588
Gas and Fuel (gal.)	169,326,543	20,967,076	62,229,301	119,660,206	198,085,147
Lubricating (gal.)	29,327,925	13,899,978	6,841,060	6,667,488	20,516,619
Wax (lb.)	15,246,921	5,091,168	4,005,022	1,986,859	3,208,133
Coke (ton)	14,662	1,347	14,562	1,212	6,147
Asphalt (ton)	112,860	190	9,238	.....	40,509
Miscellaneous (gal.)	8,562,390	5,473,187	8,252,932	18,433,327	12,116,260
Losses (bbl.)	370,226	138,145	171,549	300,214	410,101

	Louisiana and Arkansas	Colorado & Wyoming	California	TOTAL	DAILY AVERAGE 1922	DAILY AVERAGE 1921
Crude Run (bbl.)	3,158,839	1,990,111	9,006,435	43,816,996	1,413,451	1,162,739
Purch. re-run (bbl.)	138,186	1,230,170	940,563	4,883,407	157,529	87,262
Gasoline (gal.)	33,038,192	48,294,238	67,817,696	549,958,376	17,740,593	13,921,845
Kerosene (gal.)	14,994,402	11,575,385	14,445,615	184,382,897	5,947,835	4,633,945
Gas and Fuel (gal.)	61,288,477	46,124,466	266,607,889	944,289,105	30,460,939	25,304,854
Lubricating (gal.)	2,934,633	1,487,247	7,149,183	88,824,133	2,865,295	2,144,306
Wax (lb.)	5,799,078	2,452,710	51,297	37,841,188	1,220,683	919,304
Coke (ton)	7,838	6,021	.....	51,789	1,671	1,374
Asphalt (ton)	26,858	304	32,625	222,584	7,180	3,643
Miscellaneous (gal.)	14,952,750	19,819,036	47,416,089	135,025,971	4,355,676	2,982,700
Losses (bbl.)	61,377	137,943	159,554	1,749,109	56,423	51,487

Barnsdall Corporation Will Drill Wells in Baku Fields on Contract

NEW YORK, N. Y., Oct. 14.—After a trip of three and a half months abroad, Mason Day, president of Barnsdall Corporation, returned this week to the United States aboard the White Star liner Olympic. Much of the time was spent in Russia where the Barnsdall Corporation obtained a concession from the Soviet government, Mr. Day said. At the time he departed form Moscow there were some thirty trade commissioners of the British and France had about twenty-four there, all after concessions. "I did not want an out and out concession," Day explained. "I wanted a contractory concession to drill and operate the field and that is what I got. We expect to ship machinery in about six months to Baku and production will begin as soon after as is practical."

In a statement given out shortly after his landing here, Day said:

"I have obtained 400 acres in the Baku oil field for the International Barnsdall Corporation, which is the foreign subsidiary of the Barnsdall Corporation. This acreage is a minimum in this territory. More will be acquired if needed. By an agreement signed with the Soviet government, we will supply the technical executive board but the Russians will supply all unskilled labor. For such machinery as is shipped for the development of the new area, which, by the way, is virgin proven territory, the Russians will either make advances in gold or in raw materials which will be acceptable to us.

"As compensation for the services of our engineers, executive staff, etc., our corporation will receive an agreed upon percentage of oil produced. Relative to the labor question our contract gives us the right to engage and to dismiss as our wants warrant and any question which might arise will be decided by arbitration, the third member of the board to be a recognized authority, a subject of a neutral country.

"Of course it is realized that this is the first contract of any importance which has been fully ratified by all departments of the Russian government including the Supreme Council of Labor and Defense as well as the authorized representatives of the Azerbaijan Central Oil Control Committee, and proves conclusively that the doors of Russia are open."

Tulsa, Okla., Oct. 18.—A branch store has been opened in Tonkawa in Kay County in this state by the Oklahoma Tool and Supply Company. Lou Ellyea is in charge of the store, which has been opened to better serve the trade in that territory. The Tonkawa branch is the fourteenth store to be operated in the Mid-Continent by the Oklahoma Tool and Supply Company, which has headquarters and general offices in Tulsa.

Bed of Another River in Oklahoma at Issue

Washington, D. C., Oct. 16.—Along with the Red River boundry case, the United States Supreme Court has under consideration an analogous case in Oklahoma, concerning the Arkansas river. This case was brought up from the United States District court of Western Oklahoma by the United States as trustee for the Osage Indian tribe and itself against the Brewer-Elliott Oil & Gas Company et al. These concerns hold oil and gas leases in the bed of the Arkansas river between Osage and Pawnee counties from the State of Oklahoma.

The United States district court decision was in favor of the Indian tribe, holding that the river was not navigable at the point in question. This decision was affirmed by the Eighth Circuit court of Appeal.

A further contention in behalf of the Indians was that the navigation of the stream was not the only point at issue, as the Indian tribe held title to the bed of the stream through various treaties and acts of congress. By this the government set out that the courts of the State of Oklahoma were without authority to deprive the Indians of title, under the ruling that the stream was not navigable.

VACUUM OIL DIRECTORS DECLARE EXTRA DIVIDEND

New York, N. Y., Oct. 14.—Directors of Vacuum Oil Company at their meeting here this week took no action on a stock disbursement but declared the regular semi-annual dividend of $3 a share and also an extra dividend of $7 a share, payable November 29 to stock of record on November 1. With the dividend just declared, payments of Vacuum Oil for this year will total $16 a share.

President Prizer of Vacuum Oil now is abroad and this is looked upon as an explanation why capital readjustment was not taken up at the meeting. It is believed that on his return the matter will again be brought before the board of directors.

Tulsa, Okla., Oct. 17.—The city sales offices of the Crowell Packer Company at 412 West First street are being remodelled to permit the carrying of a regular stock of the company's products. When completed there will be a show room and a stock room as well as executive offices. Frank M. Crowell Jr., is in charge of the Tulsa city office and A. B. Crowell, his brother, is associated in the work with him.

Wichita, Kans., Oct. 14.—J. W. Duvall, natural gas supervisor of the Oklahoma corporation commission, has resigned that office to accept the position of superintendent of installation of the Wichita Gas and Electric Company.

Tulsa, Okla., Oct. 17.—The Malcona Oil Company has bought the production and acreage of J. L. Essley in Osage County. The lease of 320 acres is in sections 5-22-11 and 27-20-12. It is yielding 200 barrels daily from the Bartlesville sand.

Careless Use of Distillate in Fields For Cleaning Causes Skin Infections

(The following article is revised from a discussion of this subject appearing in Bulletin No. 11, " Petroleum Safety," issued by the Industrial Accident Commission of California. Assistance in its preparation was given by numerous superintendents and others in the employ of our organization. Valuable information was derived from Safe Practices Pamphlet No. 44 of the National Safety Council and from the report of the Houghton Research Staff entitled, "Causes of Skin Sores and Boils Among Metal Workers." — Editor, The Record, published by Pacific Oil Companies and affiliated concerns.)

Distillate is widely used in the oil fields and in shops for cleaning tools, pipe, and machinery. It is also a common practice to use it for washing the hands and arms when they become covered with crude oil or grease. Men who constantly use distillate for such purposes sometimes sufier from serious skin infections and from distillate "burns."

So-called distillate burns or blisters are of relatively frequent occurrence. These are usually caused by the clothing becoming saturated with the distillate and coming in contact with the skin.

Several cases have been reported where truck drivers have been seriously affected by the clothing becoming saturated while handling the buckets used to deliver oil from the truck.

An employee in one of the southern fields engaged in cleaning up around oil derricks was in the habit of carrying a bucket of distillate with him from place to place as he worked. The rubbing of the bucket against his leg, together with slopping of small quantities of the distillate thus wetting his trousers, resulted first in a series of blisters and later in an infection which incapacitated him for work for several weeks.

Burns and blisters of this kind can only be prevented by rigidly adhering to the rule that rags saturated with distillate should never be placed in the pockets. If clothing becomes wet with the distillate it should be changed at once or precautions taken to see that the saturated clothing does not come in contact with the skin. In some kinds of work a leather or rubber protector may be required to cover the exposed parts of the body.

Frequent washing with a mild soap and hot water may affect a cure of any slight infection. Dusting the arms with equal parts of zinc oxide and starch is also an effective remedy. Workmen handling distillate or oils should give prompt attention to all slight cuts or abrasions of the skin. Dressings placed on the cuts or wounds should be changed frequently if the work is such as to allow them to become saturated with distillate or oil.

Skin infections or sores resembling boils are also often encountered. These sometimes become spread over a considerable area and are very painful and difficult to cure. Such cases usually begin on the backs of the hands or the wrists and arms. They first appear as blackheads, later surrounded by blotches due to inflammation. Unless the cause is removed, these blackheads develop into pimples and later into serious sores.

Unless preventive measures are taken, men who are working with heavy crudes or who wash their hands frequently in dirty distillate, gradually get the pores of the skin plugged. The pores become filled with grease, dirt, asphalt, paraffin, and other matter carried by the distillate or coming from the oil or other substances in which they work. Unless these pores are fully opened by frequent washing, bacteria begin to grow in the plugged pores.

Another cause of infection may come from the skin being scratched by metal particles, grit, and splinters carried in the oil or held in the oil waste with which the hands are cleansed.

Still another cause comes from rapid evaporation of the distillate from the skin. This allows the skin to grow hard and dry and it later becomes chapped. Bacteria then enter through the cracks in the skin and produce the painful results described above.

Persons whose skin is especially hairy are more frequently subject to such diseases than others. This is because the hair roots produce a greater number of pores or openings in the skin, thus giving greater opportunity for soreness to begin.

Contrary to a very common belief, infections of this kind are never caused by sulphuric acid contained in the distillate. Distillate manufactured under present conditions never contains sulphuric acid. All free acid is neutralized before the distillate is marketed. However, some distillates, as well as certain oils, do contain combined organic compounds resulting from sulphuric acid treatment, called sulphonates. These sulphonates are irritating to the skin, and under certain conditions may help to produce dangerous skin conditions.

Prevention of Skin Troubles

The first step in the prevention of these skin troubles is to use the proper grade of distillate. Some years ago it was customary in the oil fields to use a cheap grade of stove distillate for cleaning purposes. On some divisions nearly every one who used this distillate was subject to serious skin troubles. It was also found that it took nearly twice as much of the cheap grade of distillate to do the work as was required of a better grade of engine distillate. The distillate used can be either of the brown or white distillate of good grade, approximating 35° to 45° gravity.

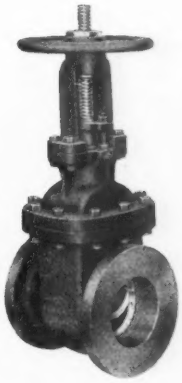
Thorough washing several times daily with hot water and soap is perhaps the best possible preventive. Wherever possible, hot water and soap should be applied immediately after washing the skin with distillate. Where water is not available, the skin should be wiped dry with waste or a soft clean cloth.

Particular care should be taken to change the clothing frequently. Under-

DARLING
GATE VALVES

STAY TIGHT
OPERATE
EASILY
and
GIVE LONG
SERVICE

Ask any User



Write for Catalogue

DARLING VALVE & MANUFACTURING COMPANY
WILLIAMSPORT, PA.

wear should be changed regularly at least once a week, and outer garments which become soaked with oil should be thoroughly cleaned at frequent intervals.

Adding a small amount of cylinder oil or Cycol to the distillate tends to prevent rapid evaporation and chapping of the hands. Cycol, being free from sulpho compounds, is not irritating to the skin. Where this practice has been tried out, reports indicate that infections are seldom encountered, provided proper care is exercised by the workmen. Lard, oil, vaseline, or carbolized cosmoline rubbed on the skin after washing tend to reduce the tendency of the skin to chap or break and serve as a partial preventive of infections.

Few Workable Oil Fields Located In Borders of Austrian Republic

The Austrian Republic possesses scarcely any workable oil fields within its borders. Several trial borings have, however, been made in Upper Austria and Salzburg, and at Tauffkirchen a small regular production has been attained. Borings in Lower Austria have only led to the discovery of small quantities of natural gas. For some time oil shale has been exploited in the Karwendelgebirge, and larger installations are in course of equipment at Haering and in the Achensee district. The two oil refineries remaining in Austrian territory might supply the greater part of inland requirements by working up imported crude, but difficulties attend the import of crude from Roumania or Poland, the most conveniently situated states for the supply of crude, as both these countries wish to work up their own crude as far as possible. A small quantity of oil from Poland keeps the refineries going on a very small scale. The exploitation of mineral oil was taken over by the state during the war, and since the revolution the control has been continued by the "Austrian Petroleum Bureau." The import of oil has been obstructed by the necessity of taking into consideration various reparations payments, the shortage of rolling stock on the railways, particularly of tank wagons, and the great depreciation in the Austrian crown. The great shortage of rolling stock has caused all the newly-nationalized states to watch most keenly over their own equipment and to make special arrangements for its guaranteed return from other states.

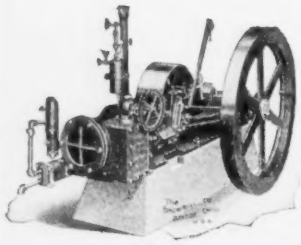
As regards the different products there has been a great shortage of petrol, and rationing was necessary in order to provide a supply for important industries and indispensable services. Latterly the fall in the value of the crown has so enhanced the price of petrol that a lessening in the demand for private cars, etc., has somewhat relieved the situation. The kerosene supplied has been generally unrefined distillate, owing to the high price of sulphuric acid and all refining materials. Kerosene also has been rationed, and the supply to the public greatly restricted, the shortage of barrels also hampering the supply. Owing to the great scarcity and dearness of coal soon after the revolution, the use of fuel oil extended, but for economic reasons again ceased. Of gas oil for motors the supply has been throughout inadequate. Lubricating oils have all along been obtainable, but, of course, at very high prices. The production and use of paraffin was, as an illuminant, stimulated by the shortage in kerosene.—Report of the Chamber of Commerce and Industry, Vienna. Allg. oest. Chem. Tech. Zeit. August 14, 1922.—P. J. M.

Washington, D. C., Oct. 16.—The Department of Commerce has been informed that the government of Ecuador has made two oil contracts with private interests for leases in the canton of Quayaquil. These are the first contracts under a new petroleum law. Interpretation of these reveals that, while the law restricts one individual to 500 hectars in any one parish, this does not prohibit assignment of two leases to one person.

Washington, D. C., Oct. 14.—Consular advices are that the Roumanian government has warned landed proprietors in the oil districts that selling concessions is contrary to national interests.

Kansas City, Mo., Oct. 14.—At a meeting of the board of directors held here October 5 Victor H. Smith was elected vice president and general manager of the Lion Oil and Refining Company. Mr. Smith also is a member of the board. The Lion Oil and Refining was organized out of the F. H. Thwing interests and has properties in the Mid-Continent field.

BROWNELL



The oil field is a severe test of an engine's staying qualities. Brownell engines are designed to meet all the trying conditions of the field and still to be reasonable in price. The fact that The Brownell Company is one of the very old engine builders of the country, having been accumulating experience for over a half century, enables them to build Oil Country Drilling Engines that last. Results in the field prove it.

THE BROWNELL COMPANY
DAYTON, OHIO, U. S. A.
Established 1855

ENGINES

Petroleum and Its Products
High-Grade—Uniform Quality

Gasoline, Kerosene, Fuel Oil, Naphtha, Distillates

Sunshine State Oil & Refining Co.
(Incorporated)
Offices, 1019-1025 American National Bank Bldg. Wichita Falls, Texas

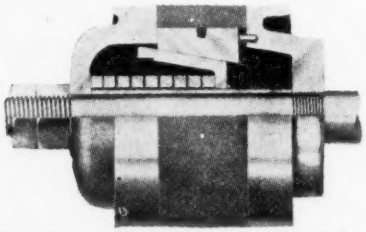
NEW EQUIPMENT, CATALOGS, BULLETINS, BOOKS

Wilson and Willard Have New Type Piston

"The life and endurance of the packing and liners of slush pumps depend upon how long the 'slippage' of the liquid between the pistons and the liners is deferred. So long as the piston fits tightly enough in the cylinder liner to resist such slippage, so long, and no longer, will the packing endure."

This explanation of the necessity for an expansion piston is made by the Wilson and Willard Manufacturing Company, which has just completed the Wilson Automatic Expansion Piston.

Regarding the automatic feature of the piston, the company says: "An expansion piston is not a success unless its adjustment is automatic. A hand actuated device will sometimes produce satisfactory results if given constant attention. However it is utterly impossible for the most experienced operator to determine when such a device needs adjustment, until it is too late to prevent the sand from cutting and ruining the working parts."



The Wilson Automatic Expansion Piston

It is claimed that the Wilson Automatic Expansion Piston has run continuously for 720 hours without change, on numerous occasions.

The cut shows the position of the expansion device, spreading from the center, and forcing the rubber packing tightly against the walls of the cylinder. This pressure is automatically maintained from within by a heavy spring bearing directly against the expansion slips.

The device is simple, few working parts, equalizes the pressure and centers the piston in the liner, and gives long service.

NEW VALVE BULLETIN

The Sour Lake Machine and Supply Company of Sour Lake, Texas, manufacturers of oil field equipment, have recently issued a bulletin on the Ewing Patented Valves. The valves are handled by a number of the larger supply companies in Texas and Louisiana.

Pyrene Makes New Foam Type Fire Extinguisher

The Pyrene Manufacturing Company of Newark, New Jersey, manufacturers of the well known fire extinguisher of that name, announce a new extinguisher known as "Phomene" which is specially adapted for oil fire use. The Phomene has been approved by the Underwriters' Laboratories.

The new extinguisher is a foam type of two and one-half gallons capacity and ejects 20 gallons of fire fighting foam which floats on the surface of the oil.

An oil industry sales office has been opened by Rossendale-Reddaway Belting and Hose Company, New York City, at 1501 Magnolia Building, Dallas, Texas. This company makes the well known "Camel Hair" "Camel" Brand belting for oilfield use. Lee V. McAnelly, who is in charge of oil field sales for the company, is in charge of the Dallas office.

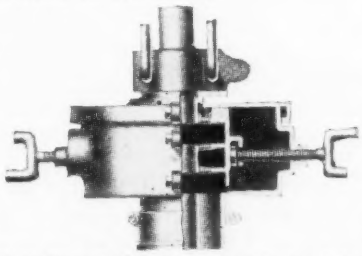
HERCULES PUMPING OUTFITS

The Barnes Manufacturing Company, Mansfield, Ohio, have just issued Bulletin No. 9 on the Barnes "Hercules" power pumping equipment. The bulletin illustrates the company's horizontal kerosene and gasoline engines for long distance pumping, high vertical lifts and other severe conditions where the suction lift is not greater than 25 feet. A table of specifications is also given.

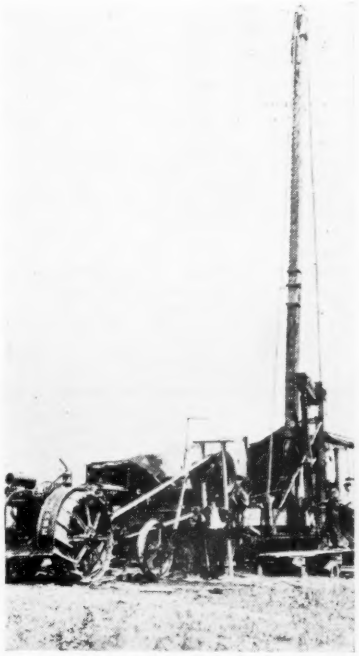
Crowell Oil Saver Has Several Good Features

The Pacific Oil Tool Company of Los Angeles, California, now have on the market the "Crowell Oil Saver" for use with of without Crowell Packer. The so-called saver fits any casinghead and permits the running of packer or tubing while the well is flowing without the loss of any oil or without mussing up the rig.

The new attachment eliminates fire risk, saves oil and keeps well under control. It dissembles in halves and does away with stripping on over tubing.



New Crowell Oil Saver manufactured by The Pacific Oil Tool Company



Case tractor operating a drilling machine and using natural gas as fuel

New Drilling Machine Perfected by Ohio Man

A new drilling machine which gives promise of becoming very popular among the oil operators has just been perfected and tested by George Lane of Marietta, Ohio. The new type of drilling machine has several new features which together with low operating costs as the result of using a tractor for the power unit makes it of unusual value, it is claimed.

The accompanying picture shows the new drilling machine in action with a Case 22-40 tractor furnishing the power. The tractor is using natural gas for fuel which according to the operator worked perfectly and developed more than enough power to operate the machinery.

MECHANICAL RUBBER GOODS CATALOGUE

The Quaker City Rubber Company, of Philadelphia, Pa., announce that they have just issued a new catalog on mechanical rubber goods. The booklet is very attractively displayed and is complete in every detail. The new catalog is of special interest to the oil industry.

The OIL WEEKLY will print on this page data on new oilfield equipment, improvements on old equipment, news of new catalogs, bulletins, etc. This department is handled exclusively by the editorial department and has no connection with the advertising department. Data will be carried on anything which the editorial department thinks of interest to our readers, regardless of whether or not the manufacturer is an advertiser in The OIL WEEKLY.—Publisher.

PERSONAL MENTION—MEN YOU KNOW

The following Shreveport oil men attended the Mid-Continent Oil and Gas Association meeting at Dallas last week: J. B. Elam, secretary of this division of the association; Clyde M. Bennett, vice president of the Invincible Oil Corporation; C. P. Clayton, of the Caddo Central Oil and Refining Corporation; Ray Magrew of the Standard; C. W. Brown, an independent operator; and Mr. Nowry of the Atlas Company.

Nathan Saper, scout for the Gulf Production Company in the Stephens County, Texas, oil fields, visited the North Texas divisional offices of the company in Wichita Falls last week.

Reece S. Allen, independent oil operator and president of the Allen Oil Company, has returned to his headquarters in Wichita Falls after a lengthy business trip to New York City.

L. E. Van Vleck, auditor for the Keystone-Ranger Refining Company, has returned to Wichita Falls from a business trip to the home offices of the company in Pittsburgh, Pennsylvania.

Two Tulsa oil producers returned home last week after a summer spent touring Europe. They are Charles B. Peters and John H. Markham, Jr. Both were accompanied by their families.

Martin W. Daly of Buffalo, New York, has assumed his duties as managing agent of the Texolean Oil Company, with headquarters in Tulsa. With William L. Marcy of Buffalo, a director of the Texolean Company, he has been inspecting holdings of the concern in Oklahoma.

Victor H. Smith, vice president and general manager of the Lion Oil and Refining Company of Kansas City, spent one day last week in Tulsa. He was en route to the Arkansas field.

Clarence C. Spinks, independent producer of Coalinga, California, fields, and a former Texan, died at his summer home near Hanford October 8.

J. A. Lyne, field representative for Lucey Manufacturing Corporation, Houston, Texas, has resigned to go with other interest.

J. P. Johnston, independent oil operator of Fort Worth, is on a business trip to Haddenfield, New Jersey.

T. B. Hoffer, president of the Fensland Oil Company of Fort Worth, departed Saturday on a business trip to St. Louis and New York City.

B. T. McNeil, secretary of the Swiftsure Petroleum Company, Houston, Texas, returned this week from the Mirando field where he spent several days in interest of the firm.

K. B. Thorndike, sales engineer for the Phoenix Iron Works Company of Meadville, Pa., was in Houston during the past week from his headquarters at Tulsa, Oklahoma.

JAMES H. GARDNER,
President of the Gardner Petroleum Company of Tulsa, Oklahoma, and a geologist of national note

W. J. Sherman, secretary to the superintendent of production for the Texas Company for South Texas, headquarters in Houston, has returned to his duties from his vacation a little ahead of time on account of so many of the employes in his department being victims of dengue. He had time to see the largest part of the Dallas Fair.

Ed W. Price, independent operator in Mexico, has returned to Tampico headquarters after a visit in California.

I. P. Chidsey, manager of the Wichita Falls offices of the Paragon Oil Company, is visiting relatives and friends in Chicago this week.

P. B. Yocom, of the R. R. Drilling Company, has returned to headquarters at Tampico after a visit at Corpus Christi where he enjoyed a full case of dengue fever.

W. A. Greer, superintendent of the Coalinga division of the Associated Oil Company, has been transferred to Huntington Beach as superintendent for the Amalgamated Oil Company. Carl Giboney of Lost Hills has gone to Coalinga to take Mr. Greer's place.

E. R. Ratcliff, president of the Invincible Oil Corporation, has returned to Shreveport from an extended business trip to New York.

W. E. Wrather, geologist, of Dallas, president of the American Association of Petroleum Geologists, was in Houston this week.

A. J. Carr, vice president and general manager of the Lucey Manufacturing Corporation, Houston, Texas, was in Dallas last week attending the convention.

Bonneau Peters, chief scout for the Standard Oil Company of Louisiana in the Shreveport territory, and Miss Irene Hughes of Shreveport, were married Sunday at the First Methodist church at Shreveport. The couple left immediately for a three weeks' trip, after which they will be at home at Shreveport.

R. I. (Bob) Miller, of the Lucey Manufacturing Corporation, Houston, Texas, will work the Gulf Coast fields in addition to the city sales for this company.

N. W. Campbell, traffic manager of the Lucey Manufacturing Corporation, Houston, Texas, spent several days in Dallas last week on business.

Roswell H. Johnson, geologist and appraiser, announces that he will continue his practice with the dissolution of the firm of Johnson, Huntley and Somers. Mr. Johnson maintains his headquarters in the Oil and Gas Building, University of Pennsylvania, Pittsburgh, Pa.

R. D. Thornberry, manager of the Port Lobos Oil Company, headquarters in Tampico, was in San Antonio last week to meet Mrs. Thornberry, who was en route to Mexico.

W. W. (Big Bill) Lightfoot, formerly superintendent of El Humo terminal for the New England Fuel Oil Company in Mexico, has recently been named manager for Mexico for the Kinney Manufacturing Company.

G. E. Cheda, manager of the Cia. de Petroleo Combustible, has returned to Tampico headquarters after an extended visit to California.

W. C. Buford of Haynesville, Louisiana, was in Tampico last week on business.

James W. Bradbury, who helps conduct affairs for the Mexican Gulf Oil Company in Mexico, headquarters at Tampico, is a disappointed young man. He was all primed for a big deer hunt when he learned that President Obregon has signed a decree protecting deer, wild goats and sheep in Mexico for a period of ten years.

Among the oil men flirting with that popular summer pastime in Houston during the past week—the dengue—were F. B. Plummer and John R. Suman. John says that he now understands how a shirt feels when it has been put through a wringer.

CHARLES D. WAGNER

has been made general manager of sales for the Axelson Machine Company. He had been in the sales department of this concern only a few months, preceding which he was sales manager for Southern California, for Berger and Carter, Inc., and has been in the machinery business for years. He is well known in the trade, especially on the West Coast, and has an abundance of knack of extending his acquaintance and friendship among those who speak the language of oil.

Recently Mr. Wagner, together with other Axelson officials, made an extended trip over the Mid-Continent and Gulf Coast, where they have established Axelson products in every field. To meet the demand from this territory, the company completed a manufacturing plant in St. Louis during the past year, where a part of the Axelson line is being manufactured for distribution throughout the territory east of the Rocky Mountains. The Amco working barrel pump, one of the specialties of this company, has had a phenomenal success, and is only one of the several products built under the motto: "There is no economical substitute for quality."

Gulf Enlarging Plant Located at Port Arthur

Port Arthur, Texas, Oct. 18.—The Gulf Refining Company is enlarging its plant here by the addition of 26 new stills, and a large amount of refinery storage, run down tanks, etc.

Contract for the tanks has been awarded the Kansas City Structural Steel Company for 43 run down tanks, 10 tanks of 10,000 barrels; eight 30,000 barrel tanks and three 5,000 barrel tanks.

The Gulf Refining Company has one of the largest plants in the United States here, and runs on Gulf Coast, Mid-Continent, Louisiana and Mexican crudes.

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

Safe-Guard Your Production

Tanks equipped with the Petroleum Safety Vent are protected against evaporation loss, dangers of being blown up by pressure or collapsed by vacuum. Also minimizes fire and lightning hazards.

It is a liquid seal valve and is free from all danger of freezing, sticking or corroding.

Insist that your tanks are equipped with Petroleum Safety Vent.

Petroleum Safety Appliance Company

P. O. Box 811 Tulsa, Okla.

Phone Cedar 3157

7 Plants

"United" Storage Tanks are offered to the Refiner and Producer, from stock, for immediate shipment, even in the face of the fact that steel supplies are about exhausted due to the Coal Strike, and transportation crippled due to the Rail Strike: we have anticipated our needs as far as possible, but unless conditions change shortly our supplies will be exhausted, the same thing being true of all builders of tankage. We urge you to anticipate your demands, and take care of your needs.

Builders of "United" Tanks and Refinery Equipment

UNITED IRON WORKS, Inc.

KANSAS CITY, MO.
—SALES OFFICES—

Dallas, Texas Tulsa, Okla.

Letters of a Coastal Bollweevil to His Sweetheart

Paul is all set for his trip to Denver where he will mix and mingle with his brothers from all parts of the country. He has borrowed $10 and is all rigged out fit to kill.

my dearest clepatry—

well, cleopatry, hear i am in houston riggin' up for my trip to denver to the geologists meetn. i am sorry you cannot go on act. of not havin the muny, and i shore appreshate yore loan of 10 dollars to help me make it. i give a opinion to the L Torro oil co hear last wk. and on act. of them wantin a speshul good opinion i charged them 50 dollars for it. it certainly was a good 1. i told them they cood not help gittin oil anywhear on there 200,000 a. lease up in nebrasky. if i had went to nebrasky i gess i cood of charged them more, but i gotten me a map and seen where the land was and i told them they cood rêdoose my expents by just sendn me some of the watr on the leese. i tasted it and i knowd that they was sure to git oil. the only thing is that some dern fool is liable to play a joak on you when you donot see where the watr comes frum.

so now i am goin to denver and believe me, cleo, i aint no slouch when i rig up, neither, only My socks whitch i borrowed from Bill Sherman to wear to the convention i found in Slim's pocket, he usin' 'em for a handkerchief slim he goin along he thinks he can git a job on that tee pot doam where harry Sinclair has gotten the govt. to eat out of his hand. slim is payn his own way, but i donot like his way of usin' my close.

now, Cleopatry, i ain't no haberdasher shop that Slim shud poke in my drawers in my private roomin' house to get somethin' to blow his nose on, and i sez to him.

"Slim Perseal, if you'n me is going to get along on this trip i ain't puttin' up for you to blow your nose on the socks that me'n Purtle ordered from the Amonia mills for conventions and Christmas," which Slim cudn't answer, because he knows me, cleopatry.

I wish Slim wood of bought some reel close, cleopatry, like i done. But you known him he never wood dress up, even t' go to Cedar bayou, or when they have a party up in Newtown, and i reckon ill be doin nobul if i git Slim to ware underclose to this convention. Slim says you boll weavil you, dont you dictertate what i ware it aint nothin to you if i dont ware nothin a tall. but cleopatry, just imagine a spectackle like that i bet the poleece wood care, tho, and besides i am past the boll weavil stage.

Slim sez the mane reasin he wants to go to the convention is that heez hurd that theys a Okla. geologist man that drinks kerosene and beer mixt, and Slim wants to stick a match under his nose to see if the gas will ignite. but you no cleopatry that Slim aint interested in what no OTHER man drinks.

Well cleopatry, i certnly hope that you aint allowin that no count Red Jenkins to hang around any cleopatry. For ill tell you, cleopatry, he aint no more a drillern Slim is, only he got a job wunst of bein a driller which he cudnot keep till he pulled out wunst. dont you believe him none cleopatry, hees so short that he caint sleep at nites without washin his feet.

And speekin of close, cleopatry, i dont gess that there aint no body, kin lay me in the shade whitch hear is a list of:

1 green and yeller stript shirt.

1 sleeve holder becaus my shirt sleeves is to long.

1 collar size 16 to ware when im cool.

1 collar size 17 to ware when i go that there dance theyre goin to have at that cuntry club becaus you no, cleopatry i need lot of room for my neck when i dance.

1 sute of skyblue with peg pants, because as you no, cleopatry i dont like nothin in tite bretches.

2 pear of sox whitch i ordered and witch Slim blowed his nose on one.

1 pear of red white and blew suspinders.

1 pear cuf buttins with rubie sets.

1 pear garters.

1 pear tan shoes number 11 with cloth tops and i aint no lye, cleopatry, when i sez these is the shoes that will bring home the grub.

1 undershirt of wull.

1 pear of drawers.

1 done a good bargin, cleopatry, when i bought this hole outfit for $17.98 which the hebru that operates the store on Travis street sez aint near the inityl cost of the close. he tried to make me pay extra for the shoos becaus he said they was oversized and he wanted time and a half for fittin em, but cleopatry, that feller dont belong to no union that i cud see and i tole him he didnot git union rates.

well, i have got my ticket to Denver and wun of them Pillman beds clean to the convention. but i dont no what to do cleopatry. i dont want to stay in no bed all the way from Houston to Denver and i paid for that Pillman bed clean there so i gess ill have to stay in bed if i git my money's worth.

Rite to me cleopatry honey at the convention and remember im yore sweetheart till a Ureka rench pulls lose.

with love and kisses yore

Paul.

Make Plans to Test Kingman and Reno Counties in Kansas for Oil

WICHITA, KAN., Oct. 14.—A group of Wichita men headed by H. W. Arnold and S. J. Hayes have undertaken the development of a possible oil or gas field west of Wichita in Kingman and Reno Counties in Kansas. The undertaking has the financial support of business men of Wichita, Hutchinson and Kingman as well as the backing of the boards of commerce of the first two cities. The development program at present provides for the completion of three wells—the Garber, Rayl and the Castleton— and the drilling of a fourth on a location to be announced shortly. The location of this fourth well likely will be somewhere between the Rayl and the No. 2 Fields well which is being put down by the Silver Creek Oil Company.

That there are possibilities of oil and gas in paying quantities to be found in the territory under development is the opinion shared in by such geologists as George Edwin Dorsey, H. B. Goodrich, Shidel and Pasewalk and others.

Some weeks ago the Wichita Board of Commerce named a committee consisting of C. L. Henderson, vice president of the Sterling Oil and Refining Company; J. A. Woods, president of the Bridgeport Machine Company; H. W. Arnold, W. A. Weigand, Hal M. Black and C. A. Bramlett to investigate the possibilities of oil development in Reno and Kingman Counties. L. S. Pegues, acting president of the Hutchinson Board of Commerce, also appointed a committee to work with the Wichita committee. The Hutchinson committee consisted of Geo. E. Gano, mayor; Emerson Carey of the Carey Salt Works; V. M. Wiley of the Rorabaugh-Wiley Company; D. F. Coe of the Coe Investment Company and Fred Cooter, president of the Exchange State Bank.

After the committees had submitted their reports the project was decided on and financial backing was obtained which insures the giving of the territory a thorough test. Those who contributed towards the development work in Reno and Kingman counties include the following:

W. M. G. Howse, Richard M. Gray, C. A. McCorkle, L. C. Kelly, Jerome Harrington, C. L. Davidson, George E. Ricker Jr., Kansas City; Dr. C. H. Dixon, W. E. Jett, T. M. Deal, O. J. Watson, E. A. Cookson, Howard V. Wheeler, Hal V. Black, A. M. Vester, J. C. Kelly, J. H. Turner, Orville B. Bedell, J. E. Fisher, R. G. Hagny, Frank Russell, W. W. Lancaster of Winfield; J. J. Jackson of Philadelphia, Pa.; Henry C. Whalen, J. T. Nuttle, J. W. Bramlett, Lee Scott, L. L. Marcell.

Night Classes for Boys Working for Sinclair

Tulsa, Okla., Oct. 17.—Rather than lose the services of boys in its employe, the Sinclair Oil & Gas Company has organized a vocational school with night classes. An Oklahoma law requires boys, who have not had at least two years of high school work, to attend part time school. So many boys of the Sinclair office were effected by this that the company organized its own classes.

Mrs. Ida Balch, efficiency secretary for the Sinclair Company, is in charge of the work. Required subjects of the course are arithmetic, spelling, business English and Penmanship. Elective studies are bookkeeping, typewriting and mechanical drawing.

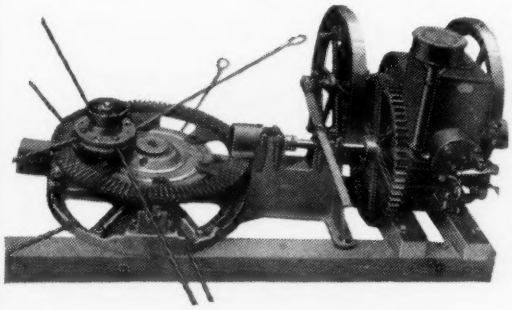
Doheny Not Seeking Additional Properties

Washington, D. C., Oct. 14.—E. L. Doheny, president of the Mexican Petroleum Company, who is just back from a three months' tour of Alaska, is authority for the statement that his company is not seeking any additional properties either in this country or in Alaska.

Mr. Doheny made it clear that Mexican Petroleum Company's interests were in Mexico and would be there for some time to come. He has been quoted as saying that his properties in the southern republic would not be exhausted for at least ten years hence.

Los Angeles, Oct. 14.—J. J. Jeffries, "Big Jim' of the fight world, has organized the James J. Jeffries Development Company, a Delaware Corporation, with offices at 317 West Seaside Boulevard, Long Beach, California. The company is said to have 2500 acres of land under lease in Rains County, Texas. Jeffries is not the first pugilist to lay aside the mits, to become a wildcat tamer.

Lightning No. 1 Power



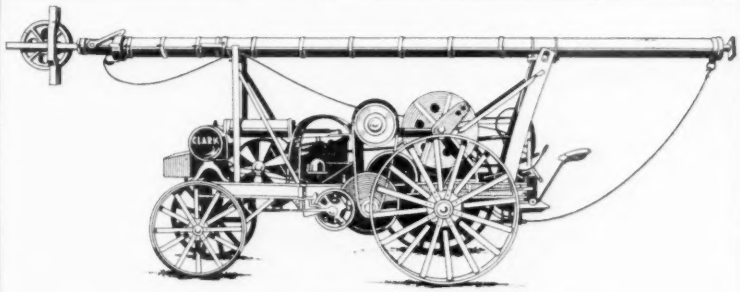
A combined power and 6 or 8 H. P. engine or belt drive. Gives a powerful straight line pull in nearly any direction. A full 18-inch stroke to shackle lines insures production.

Write for Particulars

Address Oil Well Supply Department

Kansas City Hay Press & Tractor Co.

KANSAS CITY, MO.



IT WAS FIGURED OUT

For pulling rods and tubing, or bailing wells you'll find this Clark model both economical and efficient. It is not a "happenstance," but is the result of long association with old field work, and a thorough understanding of its needs.

This machine moves on its own power, two speeds up and reverse, and delivers the goods.

Write for details, prices, etc.

CLARK MACHINE CO.

Wichita Falls, Texas

SQUEAKS from the BULL WHEEL

THEM WAS BULLETS

A pretty young thing from the city had been staying on a ranch up in the cattle country for a few weeks. Seeing some calves running across a pasture, she exclaimed, "Oh, what pretty cowlets!"

"Yes, miss," drawled a ranchman, pulling his mustache to conceal a smile, "they are pretty, but they's bullets."—Owenwood Magazine.

NO WONDER HE CRIED

It was a soiree musical. A singer had just finished "My Old Kentucky Home."

The hostess, seeing one of her guests weeping in a remote corner, went to him and inquired in a sympathetic voice:

"Are you a Kentuckian?"

And the answer came quickly: "No madam. I am a musician."—Superior Sheet.

Mother: Jessie, the next time you hurt that kitty, I'm going to do the same thing to you. If you slap it, I'll slap you. If you pull its ears, I'll pull yours. If you pinch it, I'll pinch you.

Jessie (after a moment's thot)—"Mama, I'll pull its tail."—London Opinion.

A small Hebrew storekeeper down in New York, much to the surprise of his brethren, blossomed forth one morning with a gorgeous new blind on his store window. Of course it was the envy of all the tribe. Also the cause of many questions. "Nice blind, Isaac," began one of his neighbors. "Yes, Aaron." "Vat did it cost you, Isaac?" "It didn't cost me nothing, Aaron; my customers paid for it. "Your customers, vy Isaac!" Sure, Aaron, I put a leedle box on my counter marked 'For the Blind' and they paid for it."—Exchange.

Now Father chews his big cigar,
While mother "rolls her own."
Dear Sis is strong for the tailor mades
And likes to smoke alone.
Aunt Tabby likes a long cheroot,
And Willie shoots the snipe;
Big Brother swipes his pills from Sis,
And Grandma hits the pipe.

"Mother, why did you marry father?"

"So you've began to wonder, too, have you?"

Jack: Were you ever pinched for going fast?

Eddie: No, but I've been slapped.

Dink—"Have any luck in the poker game last night?"

Blink—"Yes, there was a doctor in the game and I won eight prescriptions."—Loew's Weekly.

"What has the indulgent mother in view when she whips her disobedient child?" inquired the professor of a class in moral philosophy, and then he couldn't quite understand why the class looked at each other and laughed.—Anon.

A HOPEFUL OUTLOOK

The greater part of Parson Bozeman's Wednesday night sermon had been devoted to the major political parties, wherein he alluded to them in no flattering terms for their inability to get together in matters pertaining to the nation's welfare, and he wound up by delivering himself of the following:

'But, Brethren an' Sisters, Ah knows dat dat Donkey an' Elephant am gwine to git together arter awhile; an' Ah bases dat prediction on Scripture itself; bekase Scripture say dat de time am comin' when de Lamb an' de Lion am gwine to lie down together, an' whilst it don't say nothin' 'bout de Donkey an' de Elephant lyin' down together, Ah has observed of late dat whenever dar is a ticklish job on hand, dese two animals is already contracted a habit of at least bofe layin' down at de same time."—Anonymous.

A BOY'S ESSAY ON GIRLS

The girl are the sister of the boy an' has long hare, wares dresses an' powder an' are stuck on actir men. The first girl were called Christmas Eve.

Most every fambly haz a girl an' some of the moar unluckie wuns haz two or three. We have a girl in our fambly an' she is my sister. She haz a bow, an' my father Hennery Brown, says he hopes she'll fule him into marrying hur. Girls kin grow older an' git younger. My sister haz been twenty-three fer foar years an' sum day we may be twins.

Fat girls want to be thin and visus versa.

They is three kinds of girls; brunette girls, blonde girls an' them that haz money. Girls is afraid of mice an' bugs, which makes it fine to put these little reptyles down they're backs.

If I couldn't be a boy or a bulldog an' had to be a girl I wud be in blamed hard luck an' soe would you.

Yours truly,
WILLIE.
—Marion Line

THIS IS A NEW ONE

For example, there is a rich and pungent cerate which is based upon crude oil, compounded and refined so that it supplies the most vital of natural oils to your hair roots. This cerate, it might be well to know, is made of those same crude oils that are carried in great jugs upon the backs of very hairy men in the oil districts—and it is responsible for the extent of their hairiness. An oil that will eventually grow hair upon the back of a toiling man—(and their backs are covered with more hair than some folk wear upon their heads!)—will need no further word in its favor for growing hair where no hair grew before. It is this cerate which has saved hair for the most prominent heads in Wall Street—"Fashionable Dress," October issue.

IT'S GREAT TO BE AN UNCLE

A little boy from Canada, who had never seen a negro, was riding in New York with his uncle when he spied a colored lady.

"Uncle, why does that woman black her face?"

"She doesn't; that's her natural color."

"Is she black like that all over?"

"Why, yes," uncle replied.

The boy looked up beamingly at his uncle. "Gee, uncle, you know everything, don't you?"—Exchange.

"HERE'S ANOTHER GOOD POET GONE WRONG"—Kiplung

Along with the orator who talked about "drawing the liquid gold from the bowels of Mother Earth," may be classed this bit of inspired verse, from a longer effusion of similar stripe:

"Earth's black blood from a wounded vein,
Flows into the sunshine more freedom to gain
To cast off its blackness, its dross and its dirt,
To realize its riches and its power to exert."

Aint that right, Brother! You tell 'em; I aint got the "power to exert."

Happy father (rushing into room, in the first transports of delight)—"I've got a son! It's a boy!"—London Opinion.

The editor of the Squeaks column was in Chicago last week and left in a hurry. He says that the reason he left so suddenly was the outbreak of gland larceny. We've looked Squeaks editor over calmly and dispassionately, and our verdict is that he would have been perfectly safe in Chicago, even in the face of an outbreak of gland larceny.

SAMPSON'S PEDIGREE AND SAM'S

Last Christmas Mr. E. K. Ballard went down South on his vacation. When he returned he brought back with him a beautiful little bull pup named Sampson. The southern genealogists spent considerable time tracing Sampson's pedigree, as the pedigree was longer than the dog, but finally had all the information run down and the document duly drawn up and forwarded to Denver.

"Here's that pedigree at last," said Elmo. His little boy, who was standing near overheard the remark and asked what a pedigree was.

"A pedigree," explained Papa Ballard, "shows his line of descent."

Shortly thereafter was heard a tremendous explosion, and the hired man Sam, who had been engaged in labors of a mysterious nature in the basement of the house, was seen to shoot through the roof, spoiling all the shingles. His flight through the air was marked by corks and pieces of broken bottles and other debris.

"Oh, papa," said the child, "look at all his pedigree."—Midwest Review.

GUIDE FOR PURCHASERS

Air Lift Pumping Equipment
Gardner Governor Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.

Attorneys
Hirsch & Hannay
Vinson, Elkins & Wood

Agitators
Chicago Bridge & Iron Works
Kaw Boiler Works Co.

Balls and Seats
The Charles N. Hough Mfg Co.

Banks
Exchange Banks of Tulsa
First National Bank of Tulsa

Belting
Atlas Supply Co.
Bridgeport Machine Co.
Frick-Reid Supply Co.
Lucey Mfg. Corp.
Norris Bros.
Oil Well Supply Co
The National Supply Cos.

Boilers
Atlas Supply Co.
Bridgeport Machine Co.
The Brownell Co.
Frick-Reid Supply Co.
Kaw Boiler Works Co.
The National Supply Cos.
Oil Well Supply Co.
Oklahoma Tool & Sup. Co.
Texas Supply Co.
Titusville Iron Works Co.
Tulsa Boiler & Sheet Iron Wks.
United Iron Works, Inc.
Youngstown Boiler & Tank Co.
See Oil Well Supplies & Tanks

Bolt Machines
Williams Tool Corporation

Burners
Gaso Pump & Burner Mfg. Co.
Norris Bros.

Bull Wheels
International Derrick & Equipment Co.

Casing Shoes
Bridgeport Machine Co.
Gulf Coast Machine & Sup. Co.
The National Supply Cos.
Pelican Well Tool & Supply Co.

Compressors
Atlas Supply Co.
Clark Bros. Co.
Gardner Governor Co.
F. W. Heitmann Co.
Hope Engineering Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.
United Iron Works, Inc.

Cordage
The National Supply Cos.

Couplings
Harrisburg Pipe & Pipe Bending Co.

Crown Blocks
American Well & Pros. Co.
Boykin Machinery & Supply Co.
Gulf Coast Machine & Sup. Co.
International Derrick & Equipment Co.
Lucey Manufacturing Corp.
Lufkin Foundry & Machine Co.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.

Dehydrating Processes
W. S. Barnickel & Co.
De Laval Separator Co.
Petroleum Rectifying Co.

Derricks and Rigs
International Derrick & Equipment Co.
Lee C. Moore & Co.
Parkersburg Rig & Reel Co.
Peden Iron & Steel Co.
Robertson-MacDonald Lbr. Co.
Superior Tube Co.

Diamond Core Drills
Sullivan Machinery Co.

Ditchers
Buckeye Traction Ditcher Co.

Draw Works
American Well & Pros. Co.
Boykin Machinery & Sup. Co.
Lufkin Foundry & Machine Co.

Drilling Cables
Bridgeport Machine Co.
Frick-Reid Supply Co.
F. W. Heitmann Co.
The National Supply Cos.
Peden Iron & Steel Co.
Williamsport Wire Rope Dist. Co.

Drilling Machines
Bridgeport Machine Co.
Parkersburg Rig & Reel Co.
Robertson-MacDonald Lbr. Co.

Drill Pipe
Reading Iron Co.
Standard Seamless Tube Co.
Texas Supply Co.

Drilling Equipment
American Well & Pros. Co.
Bridgeport Machine Co.
Union Tool Co.

Drive Pipe
Reading Iron Co.

Electrical Equipment
Enameled Metals Co.
Southwest Gen. Elec. Co.
Westinghouse Elec. & Mfg. Co.

Elevators
Bridgeport Machine Co.
Dunn Manufacturing Co.
Gulf Coast Machine & Sup. Co.
Norris Bros.
Wilson & Willard Mfg. Co.

Engineers
Samuel J. Caudill
F. W. Freeborn Eng. Co.
James Glenn
A. S. Henley
Geo. C. Matson
Lee C. Moore & Co.

Engines, Diesel
Western Machinery Co.

Engines, Gas
Atlas Supply Co.
Foos Gas Engine Co.
Western Machinery Co.

Engines, Oil
Atlas Supply Co.
Western Machinery Co.

Engines, Pumping
Western Machinery Co.

Engines
Ajax Iron Works
American Well & Pros. Co.
Atlas Supply Co.
Bessemer Gas Engine Co.
Bridgeport Machine Co.
The Brownell Co.
Clark Bros. Co.
De La Vergne Machine Co.
Foos Gas Engine Co.
Frick-Reid Supply Co.
Hope Engineering Co.
Ingersoll-Rand Co.
Lucey Manufacturing Corp.
Lufkin Foundry & Machine Co.
The National Supply Cos.
National Transit Pump & Machine Co.
Oil Well Supply Co.
Peden Iron & Steel Co.
Southern Engine & Pump Co.
Titusville Iron Works Co.

Fire Protection
Foamite-Childs Corporation

Fish Tail Bits
American Well & Pros. Co.
Gulf Coast Machine & Sup. Co.
Pelican Well Tool & Sup. Co.
W. K. M. Company

Floor Circle Brace
Dunn Manufacturing Co.

Fuel Oil
Empire Refineries
Gulf Refining Company
Sinclair Refining Company
White Oil Corporation

Gasoline Extraction Compressors
Bessemer Gas Engine Co.
Clark Bros. Co.
Gardner Governor Co.
Ingersoll-Rand Co.
Kaw Boiler Works Co.
Sullivan Machinery Co.

Gasoline and Oil Storage Tanks
Chicago Bridge & Iron Works
Kansas Cty Struct. Steel Co.
Kaw Boiler Works Co.
Parkersburg Rig & Reel Co.

Gas Traps
Trumble Gas Trap Co.

Gauges
The Foxboro Co., Inc.

Geologists
Samuel J. Caudill
James L. Darnell
Alexander Deussen
Dorsey Hager
A. S. Henley
Robert T. Hill
Edwin B. Hopkins
Geo. C. Matson

Gauge Boards
The Foxboro Co., Inc.

Genuine Wrought Iron Casing
Reading Iron Co.

Grips and Clamps
Norris Bros.

Hose
B. F. Goodrich Rubber Co.

Laboratory Equipment
Fort Worth Laboratories

Lighting Systems
Bridgeport Machine Co.
Lucey Manufacturing Corp.
Westinghouse Elec. & Mfg. Co.

Line Pipe
Reading Iron Co.

Lumber
Robertson McDonald Lbr. Co.

Maps
James Glen
Rock Map Co.

Meters
The Foxboro Co., Inc.

Motors
Southwest General Electric Co.

Oil Conservation
The Petroleum Safety Appliance Co.

Oil Field Supplies
American Well & Pros. Co.
Atlas Supply Co.
Boykin Machinery & Sup. Co.
Bridgeport Machine Co.
Frick-Reid Supply Co.
Gulf Coast Mach. & Sup. Co.
Gardner Governor Co.
B. F. Goodrich Rubber Co.
Kansas City Struct. Steel Co.
The Kelly & Jones Co.
Lucey Manufacturing Corp.
Lee C. Moore & Co.
The National Supply Cos.
Norris Bros.
Oil Well Supply Co.
Oklahoma Tool & Supply Co.
Parkersburg Rig & Reel Co.
Peden Iron & Steel Co.
Pelican Well Tool & Sup. Co.
Southern Brass Mfg. Co.
Texas Supply Co.
United Iron Works., Inc.
Union Tool Co.
Western Supply Company

Oil Investments
Kosmos Petroleum Co.

Oil Producers
Standard Oil Co. of N. J.

Packers
The Guiberson Corporation
Layne & Bowler
Pelican Well Tool & Sup. Co.

Packing
B. F. Goodrich Rubber Co.
Lucey Manufacturing Corp.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Co.
Pelican Well Tool & Sup. Co.

Paints
Peden Iron & Steel Co.

Patents
Hardway & Cathey
Jesse R. Stone

Pipe Grips
Norris Bros.

GUIDE FOR PURCHASERS—Continued

Pipe
Atlas Supply Co.
A. M. Byers Co.
Frick-Reid Supply Co.
F. W. Heitmann Co.
Harrisburg Pipe & Pipe Bending Co.
Interstate Pipe Co.
Lucey Manufacturing Co.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Co.
Reading Iron Co.
Standard Seamless Tube Co.
Texas Supply Co.
Williamsport Wire Rope Co.

Pipe Machines
Williams Tool Corporation

Pipe Screwing Machines
Buckeye Traction Ditcher Co.

Pipe Threading Machines
Williams Tool Corporation

Pipe Threading
Williams Tool Corporation

Pipe Tongs
W. K. M. Company

Pipe Vises
J. H. Williams & Co.

Pipe Wrenches
Dunn Manufacturing Co.
The Guiberson Corporation
J. H. Williams & Co.

Portable Buildings
International Derrick & Equipment Co.

Portable Compressors
Gardner Governor Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.

Portable Drilling Rigs
Bridgeport Machine Co.
Lee C. Moore & Co.
Parkersburg Rig & Reel Co.
The National Supply Cos.

Pulleys
International Derrick & Equipment Co.
Lee C. Moore & Co.

Pulling Machines
Myrick Machine Co.
Thrift Hydraulic Casing Pulling Co.

Pumps
American Well & Pros. Co.
Atlas Supply Co.
Axelson Machine Co.
Gardner Governor Co.
Frick-Reid Supply Co.
Gaso Pump & Burner Mfg. Co.
The Goulds Mfg. Co.
Ingersoll-Rand Co.
Lucey Manufacturing Corp.
Norris Bros.
National Transit Pump & Machine Co.
The National Supply Cos.

Pumps
Oil Well Supply Co.
Pelican Well Tool & Sup. Co.
Southern Engine & Pump Co.
United Iron Works, Inc.

Pumping Powers
Kansas City Hay Press & Tractor Co.

Refined Products
Empire Refineries, Inc.
Gulf Refining Co.
Humble Oil & Refining Co.
Producers & Refiners Corp.
Sinclair Consolidated Co.
Standard Oil Co. of N. J.
Sunshine State Oil & Ref. Co.
The Texas Company
Union Petroleum Co.
Warner Petroleum Co.
White Oil Corporation

Recorders
Fort Worth Laboratories
The Foxboro Co., Inc.

Refinery Equipment
Atlas Supply Co.
Chicago Bridge & Iron Works
Frick-Reid Supply Co.
Gardner Governor Co.
Kansas City Struct. Steel Co.
Kaw Boiler Works Co.
Petroleum Iron Works Co.
Phoenix Iron Works Co.
Titusville Iron Works
Tulsa Boiler & Sheet Iron Wks.
United Iron Works, Inc.
Wyatt Metal & Boiler Works

Rig Irons
Frick-Reid Supply Co.
Lucey Manufacturing Corp.
Lee C. Moore & Co.
The National Supply Cos.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.

Rotary Rock Bits
Hughes Tool Co.

Rotary Fish Tail Bits
Pelican Well Tool & Sup. Co.

Rotary Slips
W. K. M. Company

Separators
DeLaval Separator Co.
Gardner Governor Co.
Trumble Gas Trap Co.

Strainers
Layne & Bowler Co.
J. H. McEvoy & Co.
Pelican Well Tool & Sup. Co.

Structural Steel
Kansas City Struct. Steel Co.
Kaw Boiler Works Co.
Pennsylvania Tank Car Co.
United Iron Works, Inc.

Steel Derricks
International Derrick & Equipment Co.

Steel Crown Blocks
Gulf Coast Mach. & Sup. Co.
Lee C. Moore & Co.
Parkersburg Rig & Reel Co.
Superior TubeCo.
Texas Supply Co.

Steel Storage Tanks
Chicago Bridge & Iron Works
Kaw Boiler Works Co.
The Petroleum Iron Works Co.
Phoenix Iron Works Co.

Sucker Rods
Axelson Machine Co.
Dunn Manufacturing Co.
Norris Bros.
The National Supply Cos.

Stills
The Petroleum Iron Works Co.

Tank Cars
Pennsylvania Tank Car Co.

Tanks
American Tank Co.
Black, Sivalls & Bryson
The Brownell Co.
Chicago Bridge & Iron Works
Columbian Steel Tank Co.
Kansas City Struct. Steel Co.
Kaw Boiler Works Co.
Maloney Tank Co.
Petroleum Iron Works
Phoenix Iron Works
Pittsburgh-Des Moines Steel Company
Parkersburg Rig & Reel Co.
Tulsa Boiler & Sheet Iron Wks.
United Iron Works Co.
Wyatt Metal & Boiler Works
Youngstown Boiler & Tank Co.

Tret-O-Lite
W. S. Barnickel & Co.

Thermometers
Fort Worth Laboratories
The Foxboro Co., Inc.

Threading Machines
Williams Tool Corporation

Tongs
Bridgeport Machine Co.
Dunn Manufacturing Co.
Guiberson Corporation
Norris Bros.
Pelican Well Tool & Sup. Co.
Wilson & Willard Mfg. Co.
J. H. Williams & Co.

Tool Joints
American Well & Pros. Co.
Bridgeport Machine Co.
Hughes Tool Co.
The National Supply Cos.
Pelican Well Tool & Sup. Co.
W. K. M. Company

Tools (Fishing and Drilling)
Bridgeport Machine Co.
Frick-Reid Supply Co.
Hughes Tool Co.
Lucey Manufacturing Corp.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Co.
Pelican Well Tool & Sup. Co.
Sullivan Machinery Co.

Traveling Blocks
American Well & Pros. Co.
Boykin Machinery & Sup. Co.
Gulf Coast Machine & Sup. Co.
Lufkin Foundry & Machine Co.

Tubing Catcher
Dunn Manufacturing Co.
Guiberson Corporation

Tubing
Interstate Pipe Co.
Reading Iron Co.
Standard Seamless Tube Co.

Under-reamers
American Well & Pros. Co.
Bridgeport Machine Co.
Western Supply Company
Wilson & Willard Mfg. Co.

Vacuum Pumps
Gardner Governor Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.

Valves
The Charles N. Hough Mfg Co.

Valves and Fittings
Atlas Supply Co.
Chapman Valve Co.
Frick-Reid Supply Co.
F. W. Heitmann Co.
The Kelly & Jones Co.
Lucey Manufacturing Corp.
Ludlow Valve Mfg.Co.
Lufkin Foundry & Machine Co.
The National Supply Cos.
Norris Bros.
Peden Iron & Steel Co.
Wm. Powell Co.
Pratt & Cady
Reading Steel Casting Co.
Reading Valve & Fittings Co.
Southern Brass Mfg.Co.
United Iron Works

Walking Beams
International Derrick & Equipment Co.

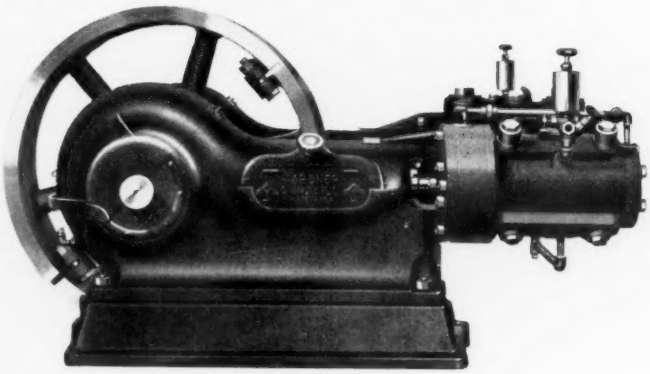
Working Barrels
The Charles N. Hough Mfg Co.

Water Gauges
F. W. Heitmann Co.

Wire Fence
Page Steel & Wire Co.

Wire Rope
Bridgeport Machine Co.
The National Supply Cos.
Williamsport Wire Rope Dist. Co.

GARDNER COMPRESSORS



Gardner Gasoline Extraction Compressor

Built for extracting gasoline from casinghead gas or natural gas by two-stage compression

Although compressed air for power and mechanical purposes has been in use for years and years it has been confined to the low stages of compression until within a comparatively recent period. It is only within the last half century that the greatest practical uses of this natural utility have been so highly developed.

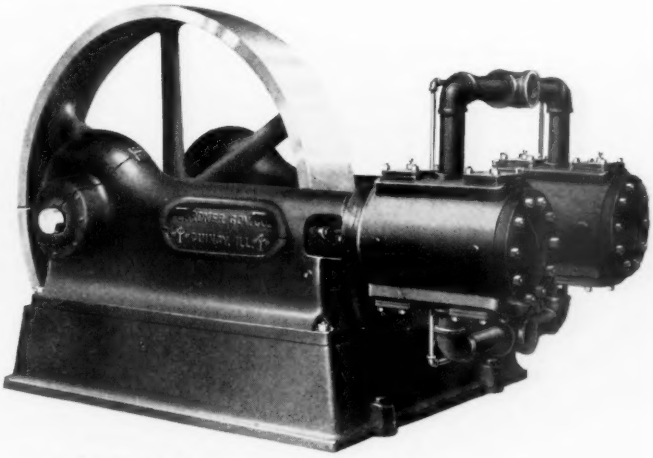
Scarcely an industry exists that does not nor cannot, untilize compressed air in some way. It is a very desirable means of power as it is easily transmitted with a small percentage of loss, is cleanly, convenient and uniform.

Economical use of air compressors is procured through correctly designed and properly built machines; machines that are durable, efficient, with low up-keep cost and that are not extravagant in power consumption.

Gardner's 60 years of experience in building this class of machinery is good "insurance" to buy.

Gardner Duo-Plate Valve Vacuum Pump

Used in gasoline extraction plants for bringing gas from the wells.



SOLD BY

ATLAS SUPPLY COMPANY

General Offices: MUSKOGEE, OKLAHOMA

Phones: 3432, 3433, 3434, 3435. L. D. Phones 26 and 28.

OKLAHOMA BRANCHES

Tulsa, Bartlesville, Pawhuska, Oilton, Okmulgee, Slick, Bristow, Henryetta Shidler, Duncan.

KANSAS BRANCHES

Augusta, El Dorado

TEXAS BRANCHES

Fort Worth, Eastland, Ranger, Breckenridge, Rising Star, Mexia.

El Dorado, Arkansas

Shreveport and Haynesville, Louisiana

Hughes Tool Joints

are made in all sizes and with coarse ACME threads. They are scientifically heat treated to give uniform structure and strength to the steel. We have specialized in the manufacture of tool joints and make them from a high grade ALLOY STEEL. Hughes joints fully meet severe oil field requirements. Every Hughes tool joint is scientifically and thoroughly tested by expert engineers before leaving the Hughes plant.

Absolute interchangeability is assured.

Ask your supply store for
Hughes Tool Joints

Hughes Tool Company

HOUSTON, TEXAS—Branch: **LOS ANGELES, CAL.**

Study
The
HUGHES
Threads